रजिस्ट्री सं० डी०(डी)—73

REGISTERED NO. D(D)—73

# भारत का राजपत्र
# The Gazette of India

प्राधिकार से प्रकाशित

PUBLISHED BY AUTHORITY

सं० 51] नई दिल्ली, शनिवार, दिसम्बर 18, 1976 (अग्रहायण 27, 1898)

No. 51] NEW DELHI, SATURDAY, DECEMBER 18, 1976 (AGRAHAYANA 27, 1898)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके

**Separate paging is given to this Part in order that it may be filed as a separate compilation.**

## भाग III—खण्ड 2

## PART III—SECTION 2

### पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

### [Notifications and Notices issued by the Patent Office relating to Patents and Designs

THE PATENT OFFICE

**PATENT AND DESIGNS**

*Calcutta, the 18th December,* 1976

SPECIAL NOTICE

The following holidays will be observed by the Patent Office, Calcutta, during the year 1977

| Name of Festival | Day of the week | Date |
|---|---|---|
| 1 | 2 | 3 |
| Muharram | Saturday | 1st January |
| Sree Panchami | Monday | 24th January |
| Republic Day | Wednesday | 26th January |
| Doljatra | Saturday | 5th March |
| Mahavira Jayanti | Saturday | 2nd April |
| Good Friday | Friday | 8th April |
| Buddha Purnima | Tuesday | 3rd May |
| Independence Day | Monday | 15th August |
| Id-ul-Fitr | Friday | 16th September |
| Gandhiji's Birthday | Sunday | 2nd October |
| Durga Puja | Wednesday | 19th October |
| Do. | Thursday | 20th October |
| Do. | Friday | 21st October |
| Kalipuja | Thursday | 10th November |
| Id-ul-Zuha | Tuesday | 22nd November |
| Guru Nanak's Birthday | Friday | 25th November |
| Muharram | Wednesday | 21st December |
| Christmas Day | Sunday | 25th December |

*CORRIGENDA*

(1)

In the Gazette of India Part-III, Section 2 dated the 2nd October, 1976 in page 810 Colum 2 under the heading "Registration of Designs" in Class 3. Design No. 143779.

*For* Lt. Cor. *read* Lt. Col.

(2)

In the Gazette of India Part-III, Section 2 dated the 9th October, 1976 in Page 824 Column 1 under the heading "Registration of Designs" in Class 1.

*For* No. 114029 *read* 144029

(3)

In the Gazette of India Part-III, Section 2 dated the 16th October 1976 in page 837 in respect of D. Nos. 143677 and 144115 Column 1 and Column 2 respectively under the heading "Registration of Designs" in Class 3.

*For* year 1976 *Read* year 1975.

*For* Nationa *Read* National.

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE

The dates shown in crescent brackets are the dates claimed under Section 135 of the Act.

11th November, 1976

2030/Cal/76. The General Electric Company Limited. Improvements in or relating to protective relay arrangements. (November 14, 1975).

2031/Cal/76. K. Iten AG. Screen-printing stencil.

2032/Cal/76. Uniroyal, Inc. Air deflector for tractor trailer vehicle.

2033/Cal/76. Azzouz Chaieb. A portable container for a retractable prayer mat or other textile sheet. (November 14, 1975).

12th November, 1976

2034/Cal/76. Patpan Inc. Improvement in or relation to apparatus for vacuum-drying flat pieces, particularly skins and pieces of leather of large dimensions.

2035/Cal/76. Vegyterv Vegyimuvekct Tervezo Vallalat and Veszpremi Vegyipari Egyetem. Method and apparatus for the production of gases of concentrated oxygen from air.

2036/Cal/76. Bunker Ramo Corporation. Cable connector.

2037/Cal/76. R. E. Starbard. Power transmission unit. (October 1, 1976).

2038/Cal/76. F. L. Smidth & Co. A/S. Tube mill. (November 21, 1975).

2039/Cal/76. Allis-Chalmers Corporation. Improved plural electric motor drive system for sharing a common load between the motors.

15th November, 1976

2040/Cal/76. Sukumar Roy and Phanibhushan Chowdhury. Battery operated electric drive system for Bi-Cycles & Tri-Cycles.

2041/Cal/76. Vsesojuzny Nauchno-Issledovatelsky Institut Legkogo I Textilnogo Mashinostroenia. Apparatus for open-end spinning of fibres.

2042/Cal/76. Sibirsky Nauchno-Issledovatelsky Institut Energetiki. Device for connecting tuned power transmission line to A. C. network.

2043/Cal/76. Debananda Pramanik. A special oven for efficient burning of smokeless coal block.

2044/Cal/76. Rohm & Hass Company. Refining of sugar juices by ion exchange. [Divisional date October 29, 1973].

2045/Cal/76. ESB Incorporated. An improved alkaline primary cell.

2046/Cal/76. ESB Incorporated. Improvements in the manufacture of primary alkaline cells.

2047/Cal/76. ESB Incorporated. An improved alkaline primary cell.

2048/Cal/76. Gloucester Railway Carriage & Wagon Company Limited. Improvements in bogie trucks.

16th November, 1976

2049/Cal/76. Combustion Engineering, Inc. Gas reheating system using hot precipitator.

2050/Cal/76. D. N. Singhania. A ground fault interruptor.

2051/Cal/76. H. Singh. A medium and high frequency power generator.

2052/Cal/76. H. Singh. Improvements in or relating to a medium and high frequency power geneator.

2053/Cal/76. RCA Corporation. Process for manufacturing a hybrid oxide.

2054/Cal/76. Varta Batterie Aktiengesellschaft. Device for the clamping of plate blocks for lead accumulators, said plate blocks consisting of positive electrodes, negative electrodes and separators.

17th November, 1976

2055/Cal/76. Dosco Overseas Engineering Limited. Mining machine. (November 18, 1975).

2056/Cal/76. Union Carbide Corporation. Cryogenic storage container.

2057/Cal/76 Union Carbide Corporation. Cryogenic storage container and manufacture.

2058/Cal/76. Stamicarbon B. V. Process and apparatus for oxidizing cycloalkanes.

2059/Cal/76. Mefina S. A. Improvements in or relating to an electronic firing device for missiles.

2060/Cal/76. Ressorts Du Nord S. A. Elastically yieldable rail fastener and rail fixing device including said fastener.

2061/Cal/76. Aikoh Co., Ltd. An expansible heat-retaining material for steel ingot making for use in hot top.

2062/Cal/76. Deutsche Gold-Und Silber-Scheideanstalt Vormals Roessler. New 6-aryl-S-triazolo-(4, 3-a)-pyrido (2, 3-f)-1, 4-diazepines.

2063/Cal/76. F. Racek & Company Limited. Kerosene oil stoves of the wick type.

2064/Cal/76. F. Racek & Company Limited. Wick material for forming wick particularly for use in kerosene oil stoves, lanterns and burners.

2065/Cal/76. K. Dawar. A magneto for use with a vehicle.

2066/Cal/76 Gould Inc. Method of treating the plates to be used in the lead acid storage battery. [Divisional date December 27, 1973].

2067/Cal/76. Cassella Farbwerke Mainkur Aktiengesellschaft Water-soluble trisazo dyestuffs, their manufacture and their use.

2068/Cal/76. Lucas Industries Limited. Multiphase full-wave rectifier assembly. (December 20, 1975).

## APPLICATION FOR PATENTS FILED AT THE (DELHI BRANCH)

8th November, 1976

21/Del/76. G. Singh. Improvements in or relating to pressure control valves for use in Kerosene Oil Stoves/Burners or the like.

22/Del/76. C. S. Bhogal. Improvements in or relating to lever operated ratchet type hoisting machines.

9th November, 1976

23/Del/76. Council of Scientific and Industrial Research. Improvements in or relating to a process for hdrogenation of glucose.

24/Del/76. Council of Scientific and Industrial Research. A process for salvaging of cast iron, brass and aluminium castings.

25/Del/76. Council of Scientific and Industrial Research. A process for the production of wet heat resistant and non-shrinkable leather.

26/Del/76. Council of Scientific and Industrial Research. Metal powders b spraying technique.

27/Del/76. Council of Scientific and Industrial Research. Modified frame for powered cycle rickshaw.

28/Del/76. M. R. Gupta. Wood wool insulating tile bonded with hard board with different punched design.

29/Del/76. J. C. Sharma. Silica-carbon refractories.

11th November, 1976

30/Del/76. Council of Scientific and Industrial Research. A process for preparation of α-(3-pentadecyl-aryloxy) isobutyric acids and their esters.

31/Del/76. Council of Scientific and Industrial Research. Improvements in or relating to the electrolytic reduction of O-nitroanisole to O-anisidine.

32/Del/76. Council of Scientific and Industrial Research. A process for the synthesis of substituted naphthoxazine-2-thiones. [Divisional date February 26, 1975].

## APPLICAION FOR PATENTS FILED AT THE (BOMBAY BRANCH)

2nd November, 1976

383/Bom/76. M. M. Parekh. Sparkling Yo-Yo toy.

3rd November, 1976

384/Bom/76. The Bombay Textile Research Association. A novel method for the thermal treatment of dyed and printed fabrics made from either cellulosic fibres or blends of cellulosic fibres with man-made fibres based on the principle of subjecting such fabrics to the direct heat of an open flame, for promoting the rapid reaction and fixation of dyes, pigments, binders, resins and chemicals on such treated fabrics.

385/Bom/76. The Bombay Textile Research Association. A process for increasing colour value and fixation of reactive and other classes of dyes on textiles.

4th November, 1976

386/Bom/76. A. Buyk & Zonen's Scheepswerven B. V. Hopper barge having a bottom discharge opening closed by hopper doors.

5th November, 1976

387/Bom/76. Ahmedabad Textile Industry's Research Association. Process for insolubilization of dyes and application of such insolubilized dyes to fabrics.

## APPLICATION FOR PATENTS FILED AT THE (MADRAS BRANCH)

8th November, 1976

212/Mas/76. Sri N. S. K. Raman. A money transacting machine.

9th November, 1976

213/Mas/76 M. V. Sreenivasa Raju. In line strainers for water systems.

## ALTERATION OF DATE

140759. 440/Cal/75. } Ante-dated 18th June 1966.

140760. 441/Cal/75. } Ante-dated to 18th June, 1966.

140761. 442/Cal/75. } Ante-dated to 18th June, 1966.

140762. 443/Cal/75. } Ante-dated 18th June, 1966.

140763. 444/Cal/75. } Ante-dated 18th June, 1966.

140764. 445/Cal/75. } Ante-dated 18th June, 1976.

140765. 446/Cal/75. } Ante-dated 18th June, 1966.

## COMPLETE SPECIFICATIONS ACCEPTED

Notice is hereby given that any person interested in the opposing the grant of patents on any of the applications concerned, may at any time within four months of the date of this issue or within such further period not exceeding one month applied for on form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months given notice to the Controller of Patents at the appropriate office as indicated in respect of each such application, on the prescribed form 15 of such opposition. The written statement of opposition should be filed along with the said notice or within one month from its date as prescribed in Rule 35 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification respectively".

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (Postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office.

CLASS 69A & 187A. 140731

Int. Cl.-H03k 17/74.

*MULTI-CHANNEL DIODE SWITCHING CIRCUITS FOR HIGH FREQUENCY OPERATION.*

*Applicant* : SIEMENS AKTIENGESELLSCHAFT, OF BERLIN AND MUNICH, GERMANY.

*Inventor* : KLAUS BOSHOLD.

Application No. 2648/Cal/74 filed November 28, 1974.

Convention date September 2, 1974/(38228/74) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A multi-channel diode switching circuit for high frequency operation, in which there is provided a number of parallel arms corresponding to the number of switch positions, each of said arms containing a series diode which is blocked in the inoperative state of its channel, and each arm having connected thereto a respective shunt diode which is held conductive in the inoperative condition of its channel, this operation being effected by a respective drive circuit for each arm, said drive circuit having a control input which drives the associated series diode conductive and blocks the associated shunt diode when earth potential is applied to that control input.

CLASS 32C & E 40B. 140732

Int. Cl.-C07g 7/02.

IMMOBILIZATION OF MICROBIAL CELLS.

*Applicant* : PFIZER INC., OF 235 EAST 42ND STREET, NEW YORK, NEW YORK, UNITED STATES OF AMERICA.

*Inventor* : ROGER PETER NELSON.

Application No. 467/Cal/75 filed March 11, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

A process for immobilizing bacteria, yeasts, actinomyces or fungi which comprises reacting said bacteria, yeasts, actinomyces or fungi with a water-insoluble particulate polymer or a precursor thereof to form a covalent bond.

CLASS 84$A_1$ & $C_7$ & $C_2$. 140733

Int. Cl.-C101 3/00, 9/12.

AN APPARATUS OXIDATIVE CONVERSION OF SOLID FUELS OR OTHER MATERIALS CONTAINING ORGANIC COMPOUNDS.

*Applicant* : ZJEDNOCZENIE PRZEMYSKU CERAMIKI BUDEWLANEJ, OF UL. MAZOWIECKA 12, WARSZAWA, POLAND.

*Inventors* : KAZIMIERZ, MIKULA, JERZY LISZKA, FRANCISZEK BIJAK AND JERZY KRATERSKI.

Application No. 326/Cal/75 filed February 20, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

An apparatus for oxidative conversion of solid fuels or other materials containing organic compounds, said apparatus including a reaction chamber and nozzles, wherein a reaction chamber is composed of a cylindrical chamber situated above the bed and of an annular chamber for the bed, said chamber situated below the said cylindrical chamber, said two chambers forming a unit, said annular chamber being terminated at the bottom with a conical surface with plates arranged radially on the said surface, said plates forming a system of nozzles, or with nozzles situated above a chamber for oxidative agent, said nozzles being arranged tangentially to the circumference of reaction chamber.

CLASS 145C & $E_2$ & $E_8$. 140734

Int. Cl.-D21h 5/14.

STRAW PAPER AND PROCESS OF MAKING THE SAME.

*Applicant*: CLUPAK, INC., OF 530, FIFTH AVENUE, NEW YORK, NEW YORK, 10036, UNITED STATES OF AMERICA.

*Inventor*: JAMES WADE EMERSON.

Application No. 1795/Cal/73 filed August 3, 1973.

Convention date November 30, 1972/(55291/72) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

20 Claims

A straw paper comprising at least 40 per cent by weight of straw fiber with a majority of the straw fibers being from 0.70 to 4.00 millimeters in length, a proportion of at least one other type of fiber which is randomly and generally uniformly intermixed with the straw fibers, and the straw paper having substantially all of its fibers locally crimped and intertwined, such local crimping and intertwining having been produced by compaction, such that the paper exhibits substantial permanent extensibility in excess of the paper web as laid.

CLASS 104-0. 140735

Int. Cl.-C08d 7/00.

METHOD FOR PREPARING A SCORCH RETARDED VULCANIZABLE COMPOSITION AND VULCANIZABLE COMPOSITIONS SO PREPARED.

*Applicant*: POLYSAR LIMITED, FORMERLY KNOWN AS POLYMER CORPORATION LIMITED, OF SARNIA, ONTARIO, CANADA.

*Inventor*: GEORGE FENIAK.

Application No. 2163/Cal/73 filed September 24, 1973.

Convention date September 28, 1972/(152,817/72) CANADA.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

19 Claims

The method of preparing a scroch retarded vulcanizable composition containing halogenated butyl rubber selected from the group consisting of brominated butyl rubber and chlorinated butyl rubber, which method comprises admixing with said halogenated butyl rubber from about 0.5% to about 5% by weight based on the total rubber in the composition of a compound of boron having at least one atom of oxygen chemically bonded to boron.

CLASS 68D. 140736

Int. Cl.-G05f 1/66.

PROTECTIVE RELAY SYSTEM.

*Applicant*: WESTINGHOUSE ELECTRIC CORPORATION, OF PITTSBURGH, PENNSYLVANIA, UNITED STATES OF AMERICA.

*Inventors*: WILLIAM ALFRED STRICKLAND, JR. AND WALTER LIVINGSTON HINMAN, JR.

Application No. 2180/Cal/73 filed September 26, 1973.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims

Protective relay system for protecting plural phase alternating potential transmission line having n phase conductors, comprising: local and remote breaker networks each having n inputs, an individual breaker controlling network for each of said n inputs, said controlling networks being individually associated with said phase conductors, each of said breaker controlling networks including a conductor fault sensing device and a courent sensing device connected to be associated with the phase conductor with which said breaker controlling network is associated, each of said breaker controlling networks including an intelligence handling device, each of said intelligence handling devices having an intelligence receiving portion and an intelligence transmitting portion, each said breaker controlling network including a first circuit interconnecting its said fault sensing device between its said current sensing device and its said intelligence handling device, said first circuit actuating said transmitter portion of its associated intelligence handling device in the absence of the sensing of a conductor fault by its associated said fault sensing device, to establish a transmitted guard signal, each said breaker controlling network including a phase comparing portion, and a second circuit interconnecting its associated said phase comparing portion to its said current sensing device and said receiving portion of its said intelligence handling device, said receiving portion of said local and remote breaker networks being effective to gate a pulsing signal to its associated said comparing portion through its associated said second circuit means when receiving a remote pulsing input signal from the other said breaker networks and to provide a remote guard signal to its associated said breaker controlling network when its said receiving portion is receiving a remote guard signal, each of said current sensing devices being effective to energize its associated said phase comparing portion with a local pulsing input signal through its associated said second circuit means, each said breaker controlling network being effective to render its said phase comparing portion ineffective to actuate its associated said breaker actuating network when its said receiving portion is supplying its said remote guard signal.

CLASS $32F_3a$ & $70C_4$. 140737

Int. Cl.-C07c 91/44, B01k 3/00, B01k 1/00.

A PROCESS FOR THE ELECTROLYTIC PRODUCTION OF P-AMINOPHENOL.

*Applicant*: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-1, INDIA.

*Inventors*: HANDADY VENKATAKRISHNA UDUPA, PAYYALLUR NARAYANAN ANANTHARAMAN AND ANNAMALAI POURASAMY.

Application No. 2436/Cal/73 filed November 5, 1973.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims. No drawings

A process for the electrolytic production of p-aminophenol which consists in reducing a suspension of p-nitrophenol in a supporting electrolyte of mineral acid preferably sulphuric acid of concentration from 10 to 25% (V/V) using stationary or rotating electrode of copper and employing titanous or titanic sulphate as addition agent preferably upto a concentration of 10g $TiO_2$ per litre of catholyte and using current densities from 10 to 25 amp/$dm^2$ and temperatures 50-60°C.

CLASS 1A & 152E. 140738

Int. Cl.-C09j 3/14.

ONE-PACKAGE POLYVINYL ESTER ADHESIVE.

*Applicant*: HOECHST AKTIENGESELLSCHAFT (FORMERLY KNOWN AS FARBWERKE HOECHST AKTIENGESELLSCHAFT VORMALS MEISTER LUCIUS & BRUNING), FORMERLY OF 45, BRUNINGSTRASSE, FRANKFURT/MAIN), BUT NOW OF 6230, FRANKFURT/MAIN 80, FEDERAL REPUBLIC OF GERMANY.

*Inventors*: JOACHIM EBIGT, REINHOLD MULLER, AND ALFONS HOMANNER.

Application No. 2649/Cal/73 filed December 4, 1973.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims. No drawings

An adhesive mixture ready for use and stable on storage comprising an aqueous polyvinyl ester dispersion containing polyvinyl alcohol as protective colloid, which contains 1.5 to 3% by weight of a water-soluble urea-formaldehyde resin of low degree of condensation such as herein described and

0.05 to 0.3% by weight of a water-soluble acid metal salt such as herein described calculated on the total mixture.

CLASS 119D. 140739

Int. Cl.-D03j 5/06.

IMPROVEMENTS IN AND RELATING TO LOOMS.

*Applicant*: JAMES MACKIE & SONS LIMITED, OF P.O. BOX 149, BELFAST, NORTHERN IRELAND, BT12 7ED.

*Inventor*: WILLIAM DENIS GRENVILLE MACKIE.

Application No. 2657/Cal/73 filed December 5, 1973.

Convention date December 14, 1972/(57821/72) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A fewt inserter or spear for a shuttleless loom the inserter having a hook mounted on its leading end to engage weft thread wherein a warp deflector member is provided movable between an inoperative position in which it acts to deflect warp yarn from the hook on withdrawal of the inserter from the shed of the loom and an operative position in which it enables weft yarn lying in the path of the hook to be engaged by the hook.

CLASS 33A. 140740

Int. Cl-B22d, 15/00, B22d 23/00.

METHOD AND APPARATUS FOR CASTING METALS AND METAL ALLOYS.

*Applicant*: DSO "METALURGIA I RUDODOBIV", OF BOULEVARD STAMBOLISKI 205, SOFIA, BULGARIA.

*Inventors*: YORDAN IVANOV VITANOV-BOTEVGRADSKO CHAUSSEE, BORIS PETKOV YORDANOV, KALCHO MINKOV MIHOVSKI AND BORIS YORDANOV DRAKALISKI.

Application No. 2658/Cal/73 filed December 5, 1973.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

A method for casting metals and metal alloys in a previously evacuated mould using a high pressure during solidification, wherein the crucible with the previously prepared melt and the casting mould are disposed in the common space of a chamber which is then tightly closed and evacuated for 5 to 20 seconds, and then the metal is poured into the mould, and then after the solidification of the melt beings, a pressure of 20 to 250 kgf/cm$^2$, preferably 120 kgf/cm$^2$, is produced in the same chamber, the value of which depends on the type of the castings.

CLASS 143D$_a$. 140741

Int. Cl.-B65b 19/02.

CIGARETTE PACKETING MACHINE.

*Applicant*: G. D. SOCIETA' PER AZIONI, OF VIA POMPONIA 10, BOLOGNA, ITALY.

*Inventor*: ENZO SERAGNOLI.

Application No. 2758/Cal/73 filed December 19, 1973.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A cigarette packeting machine having (a) means for providing batches of cigarettes in each of which the cigarettes are disposed side by side and in layers so that the batch has two wide sides, two narrow sides, both longitudinal of the cigarettes, and two ends transversal thereof, and (b) intermittently rotatable and stationary packeting wheel for packeting successive ones of said batches, each packeting wheel having a plurality of pockets therein, distributed circumferentially thereof and each of which has a first and open narrow side peripheral of the wheel, open narrow ends lateral of the wheel and a second narrow side and two wide sides in the wheel, characterised in that it further comprises means for introducing successive ones of said batches in a direction transversal to the axes of the cigarettes into respective pocket while the wheel is stationary, each along with a sheet of material for packeting the batch, so as to wrap the sheet around the batch in U-form, to place flat sides of the sheet wrapped in U-form on the wide sides of the pocket, to have first side portions of the sheet extend from the open narrow side of the pocket and end and second side portions of the sheet extend from the open narrow ends of the pocket; folding means disposed adjacent the wheel for folding the first side portions of the sheet onto the side of the batch in the open perpheral side of the pocket to initiate the packeting of the batch; and means for folding the narrow end and second side portions of the sheet to complete the packeting of the batch in each pocket.

CLASS 57D. 140742

Int. Cl.-E05f 11/00.

RAILWAY CAR DOOR MOVING STRUCTURE.

*Applicant*: HENNESSY PRODUCTS, INCORPORATED, OF 910 PROGRESS ROAD, CHAMBERSBURG, PENNSYLVANIA, UNITED STATES OF AMERICA.

*Inventors*: LUTHER LEWIS BOLLINGER AND JAMES JOSEPH HENNESSY, JR.

Application No. 86/Cal/74 filed January 14, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims

Door movin structure for a railway box car having a side wall with a door opening and a door slidable along the car wall to close and expose the door opening, an elongated horizontal rack bar for affixing to a car side, a housing element movable along said bar, manually operable means on said element for engaging the bar when mounted thereon to move said element along the bar, and a member for connecting said element to a car sliding door to move said door along the car wall relative to the door opening as said means moves said element along said bar.

CLASS 35B. 140743

Int. Cl.-C04b 7/02.

MANUFACTURE OF PORTLAND CEMENT BY EXTRACTION OF THE LIME IN THE FORM OF SLURRY FROM HIGHLY IMPURE LIMESTONE.

*Applicant & Inventor*: DULAL CHANDRA MITTRA, BISRA STONE LIME COMPANY LTD., P.O. BIRMITRAPUR, DISTRICT SUNDARGARH, ORISSA.

Application No. 701/Cal/74 filed March 28, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

Process of manufacture of Portland Cement by beneficiation of highly impure limestone, containing silica, silicates and/or Magnesia in much higher percentage than the tolerable limit, by calcination of limestone, hydration of the calcium oxide portion in the impure unslaked lime, formed on calcination, with excess water, removal of the silicious impurities together with unhydrated magnesium oxide and appreciable amount of magnesium hydroxide as "tailings" by sedimentation, and collection of the overflow of substantially pure calcium hydroxide in the form of "milk of lime" as "concentrate", for use after thickening as a calcareous material in the form of lime slurry for preparation of cement slurry by intimate mixing with required proportion of dry ground clay and, if necessary, with additive in the form of laterite, is a novel process.

CLASS 6B$_a$ & 88F. 140744

Int. Cl.-B01d 47/10.

A PROCESS FOR COOLING AND PURIFYING HOT GASES OBTAINED BY THE GASIFICATION OF SOLID AND/OR LIQUID FUELS.

*Applicant* : KRUPP-KOPPERS GESELLSCHAFT MIT BESCHRANKTER HAFTUNG (FORMERLY KNOWN AS HEINRICH KOPPERS GESELLSCHAFT MIT BESCHRANKTER HAFTUNG), OF MOLTKESTRASSE 29, 43, ESSEN 1, WEST GERMANY.

*Inventor* : HERMAN STAEGE.

Application No. 1767/Cal/74 filed August 6, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A process for cooling and purifying hot gases obtained by the gasification of solid and/or liquid fuels, comprising bringing the gases at elevated pressure into direct contact with water in a contact device from which the water is discharged into a closed expansion tank in which absorbed gas constituents released by return of the water to normal pressure and the water are separated for withdrawal through separate lines, the water thereafter being returned to the contact device after separation of the entrained solids and appropriate cooling.

CLASS 65A. 140745

Int. Cl.-H011 17/00.

SOLID STATE RECTIFIER CONTROL UNIT.

*Applicant* : LODGE-COTTRELL LIMITED, OF GEORGE STREET, PARADE, BIRMINGHAM, ENGLAND.

*Inventor* : BERNARD CANNING.

Application No. 1848/Cal/74 filed August 17, 1974.

Convention date August 23, 1973/(39956/73) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5Claims

A rectifier control circuit comprising a transformer having a primary winding and a secondary winding, a thyristor having anode and gate electrodes connected to the secondary winding and an oscillator coupled with the transformer primary, the oscillator comprising a pair of common emitter connected, alternately conducting transistors, a switching transistor whose conductive state is controlled by one of said transistors and a capacitor timing circuit controlling the conduction of the other of said transistors, the timing circuit comprising a capacitor connected in series with the emitter collector circuit of a charging transistor and in parallel with a discharge circuit, the base of said charging transistor being connected to said switching transistor whereby the conductive state of the switching transistor determines the conductive state of the charging transistor.

CLASS 129Q. & 150E & H. 140746

Int. Cl.-F16b 7/00, F161 19/02, 23/00.

FLANGED DUCTILE IRON PIPES AND THE METHOD OF PRODUCTION THEREOF.

*Applicant* : BRITISH STEEL CORPORATION, OF 33, GROSVENOR PLACE, LONDON, S.W. 1., ENGLAND.

*Inventors* : JOHN WHEATLEY AND DARSHAN PARKASH JAIN.

Application No. 2673/Cal/74 filed December 3, 1974.

Convention date December 3, 1973/(55887/73) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

17 Claims

A method of welding a flange member on to the end of a ductile iron pipe comprising the steps of providing a flange member having an annular flange portion and a generally cylindrical hub extending from the radially in most part of the flange portion, the length (L) of the hub being related to the nominal internal diameter (D) of the pipe to which the flange member is to be jointed by the equation

$$L = D^1/^n$$

where $n$ is a number between 1.10 and 1.60 and the length units are in millimetres; fitting the flange member over the end of the pipe with the flange portion adjacent the end of the pipe and the hub extending along the pipe; and welding the free end of the hub around the outer wall of the pipe.

CLASS 128F. 140747

Int. Cl.-A61m 1/02.

A BLOOD FILTER UNIT.

*Applicant* : JOHNSON & JOHNSON, AT 501 GEORGE STREET, NEW BRUNSWICK, NEW JERSEY, U.S.A. AND PUROLATOR, INC., AT 970 NEW BRUNSWICK AVENUE, RAHWAY, NEW JERSEY, U.S.A.

*Inventors* : ALFRED ROBERT LUCEYK (2) HERMAN CHARLES MOUWEN AND STEVEN LOULS WEINBERG.

Application No. 556/Cal/75 filed March 20, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims

A unit for filtering blood comprising an assembly for supporting a filter cartridge, a filter cartridge, and a housing for said assembly and cartridge, said housing having an inlet for the blood to be filtered and an air vent, said housing and said assembly being fixedly securable to each other, said assembly for supporting a filter cartridge comprising a permeable cylindrical core, a top cap attached to one end of the core to seal said end, a bottom member attached to the opposite end of the core and extending outwardly from the periphery of the core leaving the center of the core open to act as the filter outlet, a filter cartridge comprising filter media extending between said top cap and said bottom member and about the circumference of said core, said media being sealed to the top cap and the bottom member, the distance between the housing and the filter media being uniformly increased from bottom member to the top cap whereby the uniformity of filter media utilization is increased.

CLASS 5D & 172C & I. 140748

Int. Cl.-A01d 27/04, D01b 1/00.

A MACHINE FOR PICKING UP COTTON FROM GROUND.

*Applicant* : VSESOJUZNY NAUCHNO-ISSLEDOVATELSKY INSTITUT ELEKTRIFIKATSII SELSKOGO KHOZYALSTVA, OF 1, VESHNYAKOVSKY PROEZD 2, MOSCOW U.S.S.R.

*Inventor* : PETR NIKOLAEVICH LISTOV (2) MADZHID SAIDOVICH GANIEV (3) VLADIMIR IVANOVICH BURNOMSKY (4) LIDIA IVANOVNA BOGDANOVA (5) ENVER TEFIKOVICH KALAFATOV (6) DMITRY NIKOLAEVICH TOPALIDI (7) VITALY PETROVICH RODIONOV (8) EDEM IDRISOVICH JUNUSOV AND VALERY PALVLOVICH FEDOROV.

Application No. 655/Cal/75 filed April 1, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A machine for picking up cotton from ground comprising a rotary gripping means mounted on a self-propelled frame and including a pressurized cylinder made of a dielectric material and having a plurality of teeth at the outer surface thereof for gripping the cotton and transferring it into a collecting tank; said pressurized cylinder having a source of electric charges mounted in a fixed position therewithin, said electric charge source imparting the electric charges to the inner surface of said pressurized cylinder, said pressurized cylinder having a wall whose thickness is selected so that

under the action of the charges generated by said electric charge source an electric field capable of attracting the cotton to the outer surface of said pressurized cylinder is produced outside said pressurized cylinder between it and the ground; and a doffing means arranged in close vicinity to said pressurized cylinder for removing the cotton from said pressurized cylinder and directing it into a collecting tank.

CLASS $32F_{8}c$. 140749

Int. Cl. C07c. 31/14.

METHOD FOR MANUFACTURE OF PHENYL METHYL CARBINOL.

*Applicant*: ATLANTIC RICHFIELD COMPANY, OF ARCO PLAZA, 515 S. FLOWER STREET, LOS ANGELES, CALIFORNIA, UNITED STATES OF AMERICA.

*Inventors*: HENRY RALPH GRANE AND THOMAS STEPHEN ZAK.

Application No. 1514/Cal/75 filed July 31, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims. No drawings

A method for the preparation of phenyl methyl carbinol in which acetophenone is hydrogenated by reaction with hydrogen in the presence of a copper containing catalyst, wherein a stream of liquid acetophenone and hydrogen is directed through a fixed bed of granular catalyst particles at a temperature of from 90° to 150°C. at a pressure of from 6 to 150 atmospheres at a hydrogen to acetophenone mol ratio of from 1 : 1 to 30 : 1 and at a weight hourly space velocity within a range from 0.2 to 10 weight of acetophenone per weight of catalyst per hour and said catalyst, prior to the hydrogenative reduction, consists of a mixture of copper oxide and zinc oxide, the atomic ratio of zinc atoms to copper atoms being from 2 : 1 to 8 : 1.

CLASS 80J. 140750

Int. Cl.-B01d 39/10.

TUBE WELL STRAINERS OF FILTERS.

*Applicant*: PLASTO-IRON (INDIA) PRIVATE LIMITED, DUM DUM (SOUTH) CALCUTTA-55, WEST BENGAL, INDIA.

*Inventor*: SRI CHITTARANJAN PAUL.

Application No. 845/Cal/76 filed May 15, 1976.

Addition to No. 204/Cal/74.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A tubewell strainer or filter comprising a tubular body of rigid or semi-rigid thermoplastic material provided with a plurality of vertical and/or transverse slits on its body, wherein

(a) the length of each slit varies in the range of 1/8th inch to 1/4th inch, and

(b) the longer sides of each slit are inclined to each other to form a substantially cone shape, the cone converging from the inner surface to the outer surface of the strainer body.

CLASS 101B. 140751

Int. Cl.-E02d 23/00.

IMPROVED PROCESS FOR BUILDING COFFER DAMS WITH INTER-LOCKING PILES IN THE CONSTRUCTION OF UNDERGROUND SRUCTURES E.G. IN MARINE WORKS.

*Applicant*: RODIO FOUNDATION ENGINEERING LTD., AND HAZARAT & CO., 254-D, DR. ANNIE BESANT ROAD, BAND BOX HOUSE, WORLI, BOMBAY-18, MAHARASHTRA, INDIA, A REGISTERED INDIAN PARTNERSHIP FIRM WHOSE PARTNERS ARE RODIO FOUNDATION ENGINEERING LTD., A COMPANY INCORPORATED IN SWITZERLAND, 20 THEATERS-TRASSE, ZURICH, SWITZERLAND AND PRAVIR VIJAYABAI HAZRAT, PARANJAY VIJAYRAAI HAZARAT AND (MRS.) RAMANI MUTHANNA, OF 254-D, DR. ANNIE BESANT ROAD, BAND BOX HOUSE, WORLI, BOMBAY-18, MAHARASHTRA, INDIA.

*Inventors*: GEORG KUECHELMANN, ABHIMANYU HEMENDRA DIVANJI AND ANTHONY SUNNY D' CUNHA.

Application No. 243/Bom/73 filed July 17, 1973.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

10 Claims

A process for building coffer dams with inter-locking piles in the construction of underground structures *e.g.* in marine works, comprising :

placing in the area to be treated up to the depth of hard rock large diameter shell piles in series, each said shell pile being attached with fins of sheet piles, and said fins having inter-locking arrangement so that in inter-locked position said shell piles along with the sheet piles provide continuous barrier wall structure, and

filling said inter-locked shell piles with concrete up to a predetermined level.

CLASS 85Q. 140752

Int. Cl.-F27b 7/38.

COOLING OF ROTARY FURNACE SHELL BURNER PIPES AND AN APPARATUS THEREFOR.

*Applicant & Inventor*: WILLIAM LYON SHERWOOD, 668 BAYCREST DRIVE, NORTH VANCOUVER, BRITISH COLUMBIA, CANADA.

Application No. 1853/Cal/73 filed August 10, 1973.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

In a rotary kiln furnace employing at least one shell burner pipe mounted on the shell and projecting radially into the furnace interior for introducing blowing media for combustion into the furnace, forced cooling apparatus for the burner pipe comprising : cooling header ducting supplied with gaseous cooling media under pressure and positioned within and along the length of said burner pipe adjacent to and at a selected distance from, those portions of the inner burner pipe walls subject to overheating; and an array of spaced cooling jet nozzle openings in the walls of said cooling header ducting directed to effect direct impingement of colling media directly against the inner walls of said burner pipe in the form of multiple high velocity jets.

CLASS $83A_{8}$. 140753

Int. Cl.-A231 1/32.

PROCESS FOR PREPARING A FLAVOURING COMPOSITION.

*Applicant*: INTERNATIONAL FLAVORS & FRAGRANCES INC., AT 521, WEST 57TH STREET, NEW YORK, NEW YORK-10019, UNITED STATES OF AMERICA.

*Inventors*: KAREL WILLEM BREUKINK, MICHEL VAN PRAAG, ANDRIES VAN DELFT AND CHRISTOPHER GIACINO.

Application No. 234/Cal/73 filed October 17, 1973.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

16 Claims. No. drawings

A process for preparing a flavouring composition comprising heating a mixture of (1) a poultry egg product selected from the group consisting of the internal contents of whole poultry eggs, poultry egg yolk, poultry egg white, defatted poultry egg yolk, enzymatic digest of the internal contents of poultry eggs, enzymatic digest of poultry egg yolk and enzymatic digest of poultry egg white, and (2) a sulfur-containing compound selected from the group consisting of a sulfur-containing amino acid, a lower alkyl mercaptan, a lower alkyl sulfide, a lower alkyl disulfide, hydrogen sulfide, and an inorganic sulfur compound having the formula $MS_x$, where M is selected from the group consisting of alkali metals alkaline earth metals and ammonium, and $S_x$ is selected from the group consisting of sulfide and sulf-hydrate.

CLASS 43F$_4$ & 146D$_1$ & 148C. 140754

Int. Cl.-G02b 21/36, G03b 21/00.

AN APPARATUS FOR PHOTO-MICROGRAPHY.

*Applicant*: DIRECTOR GENERAL, INDIAN COUNCIL OF MEDICAL RESEARCH, ANSARI MARG, NEW DELHI-16, INDIA.

*Inventor*: DR. SAMAVEDAM SRINIVASA SRIRAMACHARYULU.

Application No. 1219/Cal/74 filed June 4, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

An apparatus for photomicrography comprising a camera and a microscope, said microscope having a source of light and condenser characterized in a twin polar unit disposed between said source of light and condenser, said polar unit consisting of a rotatable first polarized sheet and a second fixed circular polarized sheet.

CLASS 47C & 56F. 140755

Int. Cl.-C10g 1/04, 1/06.

A PROCESS FOR PREPARING DEASEHED SOLID AND LIQUID HYDROCARBONACEOUS FUEL.

*Applicant*: GULF OIL CORPORATION, OF GULF BUILDING, 7TH AVENUE AND GRANT STREET, PITTSBURGH, PENNSYLVANIA, UNITED STATES OF AMERICA.

*Inventors*: GERALD RAYMOND PASTOR AND CHARLES HUBERT WRIGHT.

Application No. 1447/Cal/74 filed June 28, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims

A process for preparing deashed solid and liquid hydrocarbonaceous fuel from hydrocarbonaceous feed coal containing ash comprising contacting the feed coal with hydrogen and a solvent as herein described for the hydrocarbonaceous material in the coal to form a coal-solvent slurry in contact with hydrogen, passing the slurry and hydrogen through a preheater for a residence time between 0.01 and 0.25 hours, said preheater having a length to diameter ratio of at least 100 to inhibit backmixing so that an increment of said slurry gradually increases in temperature in passage through the preheater to a maximum temperature at the preheater outlet, the maximum temperature at the preheat outlet being 400 to 525°C., the viscosity of an increment of the slurry in passage through the preheater increasing initially to a value at least 20 times the viscosity of the solvent alone when each is measured at a temperature of 99°C., the viscosity of the slurry when measured at 90°C. subsequently dropping to a value lower than 10 times the viscosity of the solvent alone when each is measured at 99°C. in continued passage through the preheater, the viscosity of said slurry finally tending to increase to a value greater than 10 times that of the solvent alone when each is measured at 99°C. at the exit temperature of said preheater but the slurry and hydrogen being removed from said preheater before the viscosity increases to a value of 10, forcing reduction in a manner such as herein described of the temperature of the slurry at least 10°C to a temperature at which the viscosity of the slurry does not increase to a value above 10 times that of the solvent alone when each is measured at 99°F., passing the cooled slurry to a dissolver maintained at a temperature between 350 and 475°C. and which is below the temperature at the outlet of the preheater, the residence time of the slurry in the dissolver being 0.1 to 3.0 hours which is greater than in the preheater, removing the slurry from the dissolver and separating the slurry into gaseous product, a fraction which is liquid at room temperature and a deashed fraction which is solid at room temperature, recycling hydrogen contained in said gaseous fraction to the preheater, and recycling at least a portion of said liquid fraction as solvent for said preheater step.

CLASS 47C & 56F. 140756

Int. Cl.-C10g 1/04, 1/06.

A PROCESS FOR PREPARING DEASHED SOLID AND LIQUID HYDROCARBONACEOUS FUEL.

*Applicant*: GULF OIL CORPORATION, OF GULF BUILDING, 7TH AVENUE AND GRANT STREET, PITTSBURGH, PENNSYLVANIA, UNITED STATES OF AMERICA.

*Inventors*: WILLARD CLARE BULL, GERALD RAYMOND PASTOR AND CHARLES HUBERT WRIGHT.

Application No. 1448/Cal/74 filed June 28, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

16 Claims

A process for preparing deashed solid and liquid hydrocarbonaceous fuel from hydrocarbonaceous feed coal containing ash comprising contacting the feed coal with hydrogen and a solvent such as herein described for the hydrocarbonaceous material in the coal to form a coal-solvent slurry in contact with hydrogen, passing the slurry and hydrogen through a preheater for a residence time between 0.01 and 0.25 hours, said preheater having a length to diameter ratio of at least 100 to inhibit backmixing so that an increment of said slurry gradually increases in temperature in passage through the preheater to a maximum temperature at the preheater outlet, the maximum temperature at the preheater outlet being 400 to 525°C., the viscosity of an increment of the slurry in passage through the preheater increasing intially to a value at least 20 times the viscosity of the solvent alone when each is measured at a temperature of 99°C., the viscosity of the slurry when measured at 99°C. subsequently dropping to a value lower than 10 times the viscosity of the solvent alone when each is measured at 99°C. in continue passage through the preheater, the viscosity of said slurry finally tending to increase to a value greater than 10 times that of the solvent alone when each is measured at 99°C. at the exit temperature of said preheater but the slurry and hydrogen being removed from said preheater before the viscosity increases to a value of 10, passing the slurry to a dissolver as herein described maintained at a temperature between 350 and 475°C. and which is below the temperature at the outlet of the preheater, the residence time of the slurry in the dissolver being 0.1 to 3 hours which is greater than in the preheater, removing the slurry from the dissolver, separating as herein described from the slurry an ash-containing stream, a gaseous stream, a fuel product which is liquid at room temperature, and a deashed fuel product which is solid at room temperature, and recycling a portion of the separated ash to said preheater step.

CLASS 168C. 140757

Int. Cl.-F15b 5/00.

PNEUMATIC TRANSDUCER FOR CONVERTING MECHANICAL DISPLACEMENT OF RESPONSIVE ELEMENT INTO PNEUMATIC SIGNAL.

*Applicant*: GOSUDARSTVENNY NAUCHNO-ISSLEDOVATELSKY INSTITUT TEPLOENERGETICHESKOGO PRIBOEOSTROENIA, PROSPEKT MIRA 95, MOSCOW, USSR,

*Inventors*: ALBERT YAKOVLEVICH YUROVSKY (2) GENNADY SAMUILOVICH ZELENKO (3) LJUDMILA EVGENIEVNA DENISENKO (4) ARKADY DENISOVICH PETRENKO.

Application No. 2043/Cal/74 filed September 12, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A pneumatic transducer for converting the mechanical displacement of a responsive element into pneumatic signal, comprising a pneumatic relay which incorporates a supply pressure admission duct, an output pneumatic signal duct and a pilot-pressure admission duct; and a constant-area airflow restrictor made as an ejector whose body is provided with coaxially arranged a throttling duct and an intake duct intercommunicating through a common chamber which communicates with the pilot-pressure duct of the pneumatic relay, while the ejector throttling duct communicates with the supply-pressure duct and the ejector intake duct communicates with a flapper-and-nozzle valve.

CLASS 24D, & E. 140758

Int. Cl.-B 60t 17/08.

IMPROVEMENTS IN HYDRAULIC ACTUATORS, PARTICULARLY FOR USE IN VEHICLE BRAKE ACTUATING SYSTEMS.

*Applicant*: GIRLING LIMITED, OF KINGS ROAD, TYSELEY, BIRMINGHAM, 11, ENGLAND.

*Inventor*: PETER CHARLES KNIGHT.

Application No. 2801/Cal/74 filed December 19, 1974.

Convention date December 22, 1973/(59684/73) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

An hydraulic actuator comprising a piston working in a cylinder and having first and second telescopic parts, resilient means opposing movement of the first part of the piston in a direction to extend the length of the actuator, and normally open valve means controlling fluid flow between the first part and the second part of the piston, the valve means being adapted to close on movement of the first part in the direction to extend the length of the actuator, and the area of the second part which is exposed to fluid being smaller than the area of the piston which is exposed to fluid when the valve means is closed.

CLASS 32$F_1$ & $F_3$d & 55$E_4$ & 60$X_3$e. 140759

Int. Cl.-C07c 127/16, C07c 143/78.

PROCESS FOR THE MANUFACTURE OF BENZENESULFONYL-UREAS.

*Applicant*: HOECHST AKTIENGESELLSCHAFT, OF 6230 FRANKFURT/MAIN 80, FEDERAL REPUBLIC OF GERMANY.

*Inventors*: HELMUT WEBER, WALTER AUMULLER, RUDI WEYER, KARL MUTH AND FELIX HELMUT SCHMIDT.

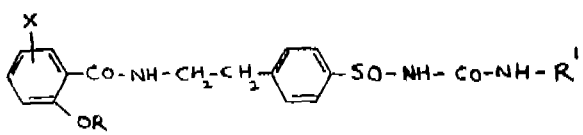
Application No. 440/Cal/75 filed March 7, 1975.

Division of Application No. 105796 filed June 18, 1966.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

A process for the manufacture of new benzenesulfonyl-ureas of the formula shown in Fig. 1.



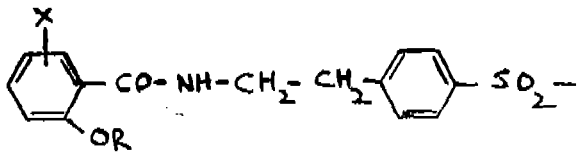
and salts thereof, in which R represents lower alkyl, preferably methyl, or lower alkenyl, X represents halogen, preferably chlorine, lower alkyl preferably methyl, or lower alkoxy, preferably methoxy, R' represents cyclohexyl, methylcyclohexyl or ethylcyclohexyl, methyl and ethyl being preferably in 4-position of the cyclohexyl radical, endomethylene-cyclo-hexenylmethyl or endomethylene-cyclohexylmethyl, which process comprises reacting an isocyanate compound of formula shown in Fig. 2.

$$B-N=C=O$$

with a compound having a terminal amino group of the formula shown in Fig. 3.

$$R^3-NH_2$$

in which B is the same as $R^1$ or stands for a group of the formula shown in Fig. 4.



wherein R and X are as defined above, and $R^2$ either has the same significance as $R^1$ above or is a group of the formula shown in aforesaid Fig. 4 with the proviso that B and $R^3$ cannot simultaneously have the same significance, and, if desired, converting the reaction product into a salt by treatment with an alkaline agent.

CLASS 32$F_1$ & $F_3$d & 55$E_4$ & 60$E_3$e. 140760

Int. Cl.-C07c 127/16, C07c 143/78.

PROCESS FOR THE MANUFACTURE OF BENZENESULFONYL-UREAS.

*Applicant*: HOECHST AKTIENGESELLSCHAFT, of 6230, FRANKFURT/MAIN 80, FEDERAL REPUBLIC OF GERMANY.

*Inventors*: HELMUT WEBER, WALTER AUMULLER, RUDI WEYER, KARL MUTH AND FELIX HELMUT SCHMIDT.

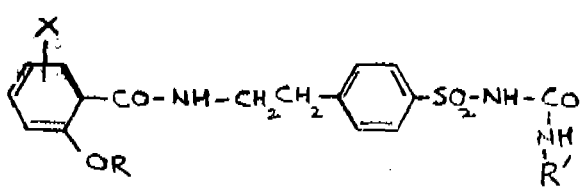
Application No. 441/Cal/75 filed March 7, 1975.

Division of Application No. 105796 filed June 18, 1966.

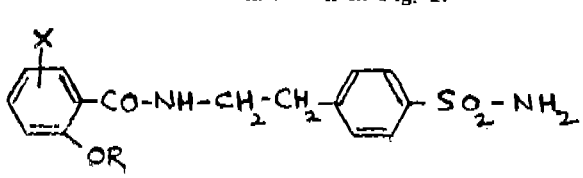
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

A process for the manufacture of new benzenesulfonyl-ureas of the formula shown in Fig. 1.



and salts thereof, in which R represents lower alkyl, preferably methyl, or lower alkenyl, X represents halogen, preferably chlorine, lower alkyl, preferably methyl, or lower alkoxy, preferably methoxy, R' represents cyclohexyl, methylcyclohexyl or ethylcyclohexyl, methyl and ethyl being preferably in 4-position of the cyclohexyl radical, endomethylene-cyclohexenylmethyl or endomethylene-cyclohexylmethyl, wherein a sulfonamide of the formula shown in Fig. 2.



or its salt, in which X and R have the meanings given above, is reacted with a carbamic acid derivative of the formula shown in Fig. 3.

$$Y—R^1$$

wherein Y is a carbamic acid ester, thiocarbamic acid ester, carbamic acid halide of urea group and, if desired, converting the reaction products into salts by treatment with an alkaline agent.

CLASS $32F_1$ & $F_2d$ & $55E_1$ & $60X_2e$. 140761

Int. Cl.-C07c 127/16, C07c 143/78.

PROCESS FOR THE MANUFACTURE OF BENZENE-SULFONYL-UREAS.

*Applicant*: HOECHST AKTIENGESELLSCHAFT, OF 6230 FRANKFURT/MAIN 80, FEDERAL REPUBLIC OF GERMANY.

*Inventors*: HELMUT WEBER, WALTER AUMULLER, RUDI WEYER, KARL MUTH AND FELIX HELMUT SCHMIDT.

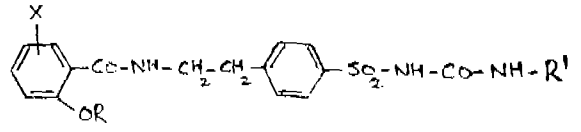
Application No. 442/Cal/75 filed March 7, 1975.

Division of Application No. 105796 filed June 18, 1966.

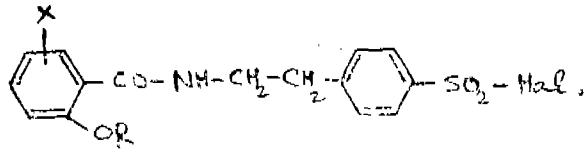
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

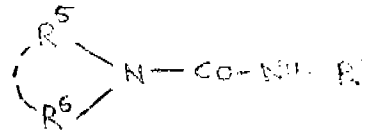
A process for the manufacture of new benzenesulfonyl-ureas of the formula shown in Fig. 1.



and salts thereof, in which R represents lower alkyl, preferably methyl, or lower alkenyl, X represents halogen, preferably chlorine, lower alkyl, preferably methyl, or lower alkoxy, preferably methoxy, $R^1$ represents cyclohexyl, methylcyclohexyl or ethylcyclohexyl, methyl and ethyl being preferably in 4-position of the cyclohexyl radical, endomethylene-cyclo-hexenylmethyl or endomethylene-cyclohexylmethyl, wherein benzenesulfonic acid halides of the formula shown in Fig. 2



are reacted with ureas of the formula shown in Fig. 3.



wherein $R_5$ and $R_6$ each is hydrogen and, if desired, converting the reaction product into salts by treatment with an alkaline agent.

CLASS $32F_1$ & $F_2d$ & $55E_4$ & $60X_2e$. 140762

Int. Cl.-C07c 127/16, C07c 143/78.

PROCESS FOR THE MANUFACTURE OF BENZENE-SULFONYL-UREAS.

*Applicant*: HOECHST AKTIENGESELLSCHAFT, OF 6230 FRANKFURT/MAIN 80, FEDERAL REPUBLIC OF GERMANY.

*Inventors*: HELMUT WEBER, WALTER AUMULLER, RUDI WEYER, KARL MUTH AND FELIX HELMUT SCHMIDT.

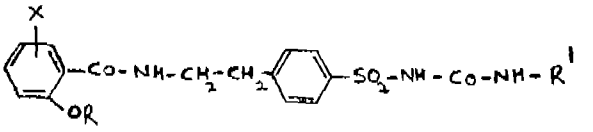
Application No. 443/Cal/75 filed March 7, 1975.

Division of Application No. 105796 filed June 18, 1966.

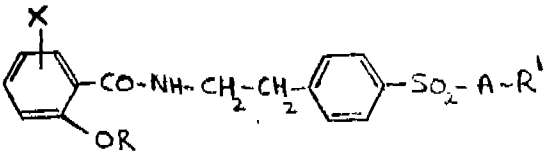
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A process for the manufacture of new benzenesulfonyl-ureas of the formula shown in Fig. 1.



in which R represents lower alkly, preferably methyl, or lower alkenyl, X represents halogen preferably chlorine, lower alkyl, preferably methyl, or lower alkoxy, preferably methoxy, $R^1$ represents cyclohexyl, methylcyclohexyl or ethylcyclohexyl, methyl and ethyl being preferably in 4-position of the cyclohexyl radical, endomethylene-cyclo-hexenylmethyl or endoethylene-cyclohexylmethyl, and their physiologically tolerable salts, which process comprises hydrolysing in known manner a compound of the formula shown in Fig. 1A.



wherein R, $R^1$ and X have the meanings as given above and A represents an isourea ether, an isothiourea ether or a parabanic acid group and, if desired, converting the reaction products into their physiologically acceptable salts by treatment with an alkaline agent.

CLASS $32F_1$ & $F_2d$ & $55E_4$ & $60X_2e$. 140763

Int. Cl.-C07c 127/16, C07c 143/78.

PROCESS FOR THE MANUFACTURE OF BENZENE-SULFONYL-UREAS.

*Applicant*: HOECHST AKTIENGESELLSCHAFT, OF 6230 FRANKFURT/MAIN 80, FEDERAL REPUBLIC OF GERMANY.

*Inventors*: HELMUT WEBER, WALTER AUMULLER, RUDI WEYER, KARL MUTH AND FELIX HELMUT SCHMIDT.

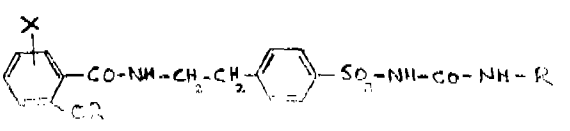
Application No. 444/Cal/75 filed March 7, 1975.

Division of Application No. 105796 filed June 18, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

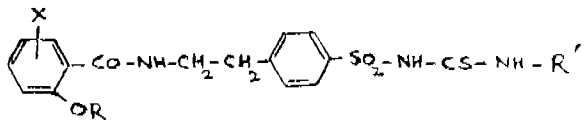
2 Claims

A process for the manufacture of new benzenesulfonyl-ureas of the formula shown in Fig. 1.

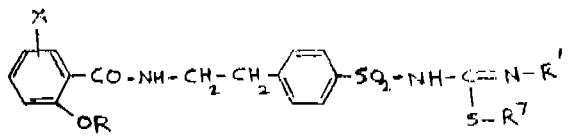


in which R represents lower alkly, preferably methyl, or lower alkenyl, X represents halogen preferably chlorine, lower alkyl, preferably methyl, or lower alkoxy, preferably methoxy, $R^1$ represents cyclohexyl, methylcyclohexyl or ethylcyclohexyl, methyl and ethyl being preferably in

4-position of the cyclohexyl radical, endomethylene-cyclohexenylmethyl or endomethylene-cyclohexylmethyl, wherein in benzenesulfonyl-thioureas of the formula shown in Fig. 2.



or benzenesulfonyl-isothiourea ethers of the formula shown in Fig. 3.



in which R, $R^1$ and X are as defined above and $R^7$ is an alkyl or phenyl radical, which process comprises replacing the sulfur atom of the thiourea or mercapto group respectively by an oxygen atom in known manner such as herein described and, if desired, converting the reaction products into salts by treatment with an alkaline agent.

CLASS $32F_1$ & $F_2d$ & $55E_4$ & $60X_2e$. 140764

Int. Cl.-C07c 127/16, C07c 143/78.

PROCESS FOR THE MANUFACTURE OF BENZENE-SULFONYL-UREAS.

*Applicant*: HOECHST AKTIENGESELLSCHAFT, OF 6230 FRANKFURT/MAIN 80, FEDERAL REPUBLIC OF GERMANY.

*Inventors*: HELMUT WEBER, WALTER AUMULLER, RUDI WEYER, KARL MUTH AND FELIX HELMUT SCHMIDT.

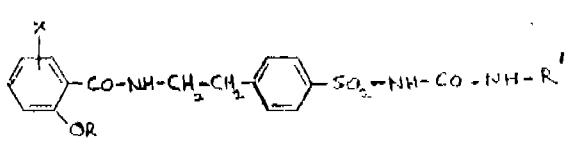
Application No. 445/Cal/75 filed March 7, 1975.

Division of Application No. 105796 filed June 18, 1966.

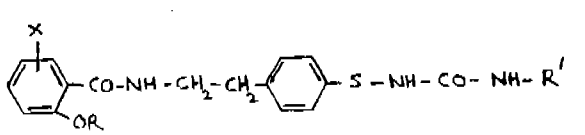
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

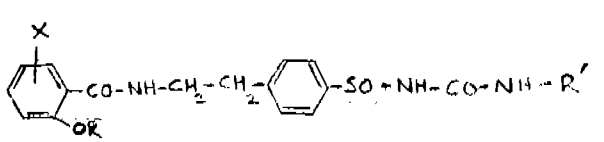
2 Claims

A process for the manufacture of new benzenesulfonyl-ureas of the formula shown in Fig. 1.



and salts thereof, in which R represents lower alkyl, preferably methyl, or lower alkenyl, X represents halogen, preferably chlorine, lower alkyl, preferably methyl, or lower alkoxy, preferably methoxy, $R^1$ represents cyclohexyl, methyl-cyclohexyl or ethylcyclohexyl, methyl and ethyl being preferably in 4-position of the cyclohexyl radical, endomethylene-cyclo-hexenylmethyl or endomethylene-cyclohexylmethyl, wherein benzenesulfenyl or sulfinyl-ureas of the formulae shown in Figs. 2 and 3,





are oxidized in known manner such as herein described and, if desired, converting the reaction products into salts by treatment with an alkaline agent.

CLASS $32F_1$ & $F_2d$ & $55E_4$ & $60X_2e$. 140765

Int. Cl.-C07c 127/16, C07c 143/78.

PROCESS FOR THE MANUFACTURE OF BENZENE-SULFONYL-UREAS.

*Applicant*: HOECHST AKTIENGESELLSCHAFT, OF 6230 FRANKFURT/MAIN 80, FEDERAL REPUBLIC OF GERMANY.

*Inventors*: HELMUT WEBER, WALTER AUMULLER, RUDI WEYER, KARL MUTH AND FELIX HELMUT SCHMIDT.

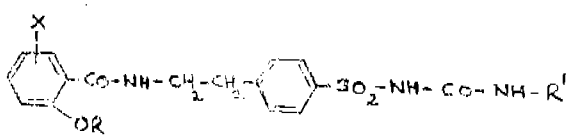
Application No. 446/Cal/75 filed March 7, 1975.

Division of Application No. 105796 filed June 18, 1966.

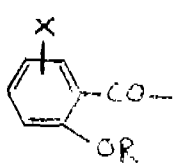
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

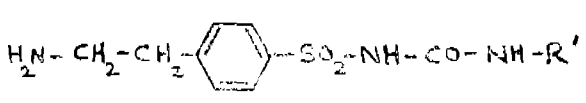
A process for the manufacture of new benzenesulfonyl-ureas of the formula shown in Fig. 1.



and salts thereof, in which R represents lower alkyl, preferably methyl, or lower alkenyl, X represents halogen, preferably chlorine, lower alkyl, preferably methyl, or lower alkoxy, preferably methoxy, $R^1$ represents cyclohexyl, methyl-cyclohexyl or ethylcyclohexyl, methyl and ethyl being preferably in 4-position of the cyclohexyl radical, endomethylene-cyclo-hexenylmethyl or endomethylene-cyclohexylmethyl, which comprises introducing by acylation in known manner a radical of the formula shown in Fig. 2.



into a compound of the formula shown in Fig. 3.



wherein R, X and $R^1$ are as defined above, and, if desired, converting the reaction products into salts by treatment with an alkaline agent.

CLASS $70C_4$ & $C_8$. 140766

Int. Cl.-C23b 5/14.

AN IMPROVED PROCESS FOR PRODUCING DEPOSIT OF TIN ON STEEL SHEET BY THE USE OF A NEW BRIGHTENING AGENT IN THE ELECTROLYTIC TIN BATH.

*Applicant & Inventor*: DR. JYOTIRINDRANATH ADHYA, OF 18/A, HIDARAM BANERJEE LANE, CALCUTTA-12, WEST BENGAL, INDIA.

Application No. 827/Cal/75 filed April 25, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims. No drawings

An improved process for producing bright deposit of tin of steel sheet by electrolysis wherein tin slab of area of 25–30 sq. centimetre is used as anode and steel sheet of the area of 25-30 sq. centimetre is used as cathode characterised in that the electrolyte used is a mixture of stannous sulphate, aqueous phenol sulphonic acid, 8 hydroxy quinoline as brightening agent, the final phenol sulphonic acid concentration present in the electrolyte being 25 to 30 gms per litre.

CLASS 32C. 140767

Int. Cl.-C07g 17/00.

AN AROMATIC FRACTION OF COFFEE.

*Applicant*: NESTLE'S PRODUCTS LIMITED, NESTLE HOUSE, COLLINS AVENUE, NASSAU, BAHAMAS.

*Inventor*: PAUL CAZENAVE.

Application No. 2006/Cal/75 filed October 16, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

11 Claims. No drawings

A process for obtaining an aromatic coffee fraction from an aqueous medium such as herein described containing said fraction, which comprises contacting the aqueous medium with an organic solvent which is an azeotropic mixture capable of boiling at a temperature below about 50°C of (a) atleast one non-aromatic hydrocarbon and (b) at least one non-aromatic halogenated hydrocarbn or an ether and recovering a solvent phase containing the aromatic fraction.

CLASS 90-I. 140768

Int. Cl.-C03c 1/10, 3/20.

A METHOD OF CHANGING COLOUR AND OXIDATION STATE OF A GLASS MELT IN A FURNACE.

*Applicant*: A. C. I. OPERATIONS PTY. LIMITED, OF 550 BOURKE STREET, MELBOURNE, IN THE STATE OF VICTORIA, COMMONWEALTH OF AUSTRALIA.

*Inventors*: MICHAEL BRUNGS AND JOHN BURNISTON.

Application No. 1901/Cal/73 filed August 17, 1973.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims. No drawings

A method of changing colour of a glass melt in a furnace by changing from a first melt having a first oxidation state and colour to a second melt having a different second oxidation state and colour, oxidation state being defined in terms of the Manring Carbon Number and the difference in oxidation state between the first and second melt being sufficiently great as to give rise to foam formation if the two melts were mixed together, said method comprising adjusting the oxidation state of the first melt towards that of the second melt in a series of steps by varying the concentration of at least one of the group of substances comprising dichromates, arsenic, slag, aluminium powder, cyanides, sodium sulphate, gypsum, barytes, nitre, carbon sulphur, calcium sulphides, ferrous sulphide, iron pyrites and iron chromite in the batch material fed into the furnace, prior to introducing or removing colourants required to give the desired colour of the second melt.

CLASS 9D & 103. 140769

Int. Cl.-C23f 13/00, C23b 11/00, C22c 39/14.

ELECTROLYTIC TREATMENT OF CHROMIUM-CONTAINING ALLOYS AND ELECTROLYTES FOR USE THEREIN.

*Applicant*: INTERNATIONAL NICKEL LIMITED, OF THAMES HOUSE, MILLBANK, LONDON, S.W. 1., ENGLAND.

*Inventors*: THOMAS ERNEST EVANS, ANTHONY CHRISTOPHER HART AND WILLIAM HELD SUTTON.

Application No. 2269/Cal/73 filed October 12, 1973.

Convention date October 12, 1972/(47048/72) U.K.

Addition to No. 131405.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims. No drawings

A method of increasing the hardness of a porous film formed on the surface of a corrosion-resistant chromium-containing iron alloy by treatment of the alloy in an aqueous solution of chromic and sulphuric acids, with or without other constituents, in which the alloy bearing the porous film is subjected to electrolysis in a manner such as herein described as the cathode in a hardening electrolyte from which an oxidic chromium deposit is formed in the film pores, the hardening electrolyte containing in aqueous solution chromic acid and an agent, other than silico-fluoride or fluoride ions, such as herein described capable of promoting the cathodic deposition of an oxidic chromium deposit within the pores of the film in preference to metallic chromium, and the cathodic electrolysis and thereby the formation of the oxidic deposit being carried out for a period of time sufficient to harden the film.

CLASS 33D. 140770

Int. Cl.-B22d 37/00.

SLIDING GATE CLOSURE MECHANISM FOR FLOW CONTROL OF MOLTEN METAL.

*Applicant*: USS ENGINEERS AND CONSULTANTS, INC., AT 600 GRANT STREET, PITTSBURGH, STATE OF PENNSYLVANIA, UNITED STATES OF AMERICA.

*Inventors*: EARL PAGE SHAPLAND AND JAMES THOMAS SHAPLAND.

Application No. 2401/Cal/73 filed October 31, 1973.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A sliding gate closure mechanism for controlling the flow of molten metal through a pour opening of a vessel, in which closure mechanism a reciprocable ram is either connected to a gate plate having an opening and a solid closing portion integral therewith or is arranged for moving succeeding gate plates in stages from a feeding position in front of the withdrawn ram over and past the pour opening, each of said succeeding gate plates being provided either with an opening or a solid closing portion, and a supporting structure secured to the vessel engages and urges the gate plate against a sealing area about the pour opening in a control position aligning the gate opening or the solid portion with the pour opening, characterized in that the supporting structure has a gate-engaging portion which spans the space between opposite edges of the gate body longitudinally to gate movement and has an opening for the passage of molten metal, one of the longitudinal sides of said portion is attached to the vessel by a pivotal mounting and the opposite side of said portion is securable in a latched gate-engaging position by a releasable latching mechanism, said portion being swingable from the latching position into an open position exposing the gate.

CLASS 33E. 140771

Int. Cl.-B22c 9/02, 9/10, 15/08, 13/00.

MIXING CHAMBER CONSTRUCTION.

*Applicant*: BAKER PERKINS HOLDINGS LIMITED, OF WESTFIELD ROAD, PETERBOROUGH, ENGLAND.

*Inventor* : ALBERT EDWARDS.

Application No. 2497/Cal/73 filed November 14, 1973.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims

A mixing chamber construction comprising a cylindrical wall, a base, a roof, a material inlet, a material outlet, and a rotary mixing element in the chamber, the element having an axis substantially coaxial with the axis of said cylindrical wall and having first blade means arranged on the element to sweep the base during rotation to the element and second blade means arranged on the element and angularly offset from the first blade means to sweep the cylindrical wall during rotation of the element.

CLASS 33E. 140772

Int. Cl.-B22c 9/02, 9/10 13/00, 15/08.

METHOD AND APPARATUS FOR PREPARING FOUNDRY MOULDS OR CORES.

*Applicant* : BAKER PERKINS HOLDINGS LIMITED, OF WESTFIELD ROAD, PETERBOROUGH, ENGLAND.

*Inventor* : ALBERT EDWARDS.

Application No. 2498/Cal/73 filed November 14, 1973.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims

A method of preparing a foundry mould or core from a cold-setting foundry sand mixture comprising mixing successive batches of sand/binder mixture on the one hand with sand/catalyst mixture on the other hand in a mixing chamber, discharging the successive batches into a core or mould box and purging the mixing chamber with compressed gas between the mixing operations.

CLASS 85J & Q. 140773

Int. Cl.-F27b 7/22.

IMPROVEMENTS RELATING TO THE SUPPORT OF ROTARY DRUMS.

*Applicant* : F. L. SMIDTH & CO. A/S., OF 77, VIGERSLEV ALLE, COPENHAGEN, VALBY, DENMARK.

*Inventor* : WILLIAM CHRISTIAN ENDERSEN.

Application No. 2743/Cal/73 filed December 17, 1973.

Convention date December 18, 1972/(58375/72) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

In combination, a rotary drum for treating liquid, pulverous or granular material, such as a tube will or rotary kiln of the kind which is rotatable about a horizontal or slightly inclined axis, the drum being provided on its circumference with at least one running surface for supporting the drum on a foundation comprising at least one or more support members mounted on the foundation, and at least one substantially rigid annular body member positioned about said support member with the running surface of the drum in contact relation with outer surface portions of the endless annular body member, to follow a path in a plane substantially perpendicular to the axis of the drum to be supported, and either the inner peripheral surface of the endless annular body member closest to the drum or the outer peripheral surface of the endless annular body member remote from the drum being in contact with and running over the supporting member or members to transmit at least part of the weight of the drum to the supporting member or members.

CLASS 23B. 140774

Int. Cl.-B65d 85/50.

IMPROVEMENTS IN FISH BOXES.

*Applicant* : RATIO PACK, OF 122/39A-2344 SUBSTADT, WIEN, AUSTRIA.

*Inventor* : KLAUS WINKLER.

Application No. 2801/Cal/73 filed December 24, 1973.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

22 Claims

A fish box for the storage and transportation of fish and similar products comprising impregnated corrugated cardboard forming a top, a bottom and side walls having lateral water drain holes which extend to said bottom, said bottom of the fish box being higher in the centre than at two opposite sides, said top being higher in the middle than at said two opposite sides to complement said bottom.

CLASS 90F. 140775

Int. Cl.-C03b 15/02.

METHOD AND APPARATUS FOR MANUFACTURING SHEET GLASS.

*Applicant* : PPG INDUSTRIES, INC., OF ONE GATEWAY CENTER, PITTSBURGH 22, STATE OF PENNSYLVANIA, UNITED STATES OF AMERICA.

*Inventors* : WILLIAM CURTIS HARRELL AND HOMER ROBERTS FOSTER.

Application No. 466/Cal/74 filed March 5, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

19 Claims

A method of manufacturing a continuous sheet of glass which comprises delivering a stream of molten glass into a pool of molten metal, conveying the glass along the surface of said pool of molten metal, cooling said glass to form a dimensionally stable continuous sheet of glass, withdrawing said continuous sheet of glass from said pool of molten metal, and flowing said molten metal along a path within said pool of molten metal in a direction substantially counter to the direction of conveying the glass on the surface of the pool.

CLASS 39L. 140776

Int. Cl.-C22b 21/00.

PROCESS FOR CONTINUOUS PRODUCTION OF AQUEOUS BASIC ALUMINUM SALT SOLUTION.

*Applicant* : SUMITOMO CHEMICAL COMPANY, LIMITED, OF 15, KITAHAMA-5-CHOME, HIGASHI-KU, OSAKA, JAPAN.

*Inventors* : KOICHI YAMADA, MASAO YOSHIHARA AND HISAKATSU KATO.

Application No. 405/Cal/74 filed February 26, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims

In a process for continuously producing an aqueous basic aluminum salt solution which comprises passing a slurry of a member selected from the group consisting of aluminum hydroxide, alumina—containing minerals and a mixture

thereof and a mineral acid selected from the group consisting of hydrochloric acid and nitric acid through a tubular reactor heated indirectly to at least the boiling point of the aqueous basic aluminum salt solution at such a flow rate that the slurry is not precipitated, the improvement comprising, allowing the product from the tubular reactor to be held at least at the boiling temperature of the aqueous basic aluminum salt solution for achieving further dissolution of undissolved aluminum.

CLASS 33A. 140777

Int. Cl.-B22d 11/00.

METHOD AND APPARATUS FOR FORMING AN INTERNAL TAPER IN THE WALLS OF A SLEEVE-LIKE BODY.

*Applicant* : USS ENGINEERS AND CONSULTANTS, INC., AT 600 GRANT SHEET PITTSBURGH, STATE OF PENNSYLVANIA, UNITED STATES OF AMERICA.

*Inventor* : RICHARD CHARLES GLENN.

Application No. 508/Cal/74 filed March 11, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

16 Claims

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

A method of forming an internal taper in the walls of a sleeve-like body, said method being characterized in that the etching solution is introduced continuously to said body from the lower end thereof, and the level of the pool surface is gradually changed by discharging etching solution through an overflow within said body and by moving said overflow upwardly during the tapering operation for a gradual rise of the level of the pool surface.

CLASS 67C & 146C & D. 140778

Int. Cl.-G01n 9/24.

A SMOKE METER.

*Applicant & Inventor* : DR. HARBANS BAHADUR MATHUR, OF IV/XI/A-6, I.I.T. CAMPUS, HAUZ KHAS, NEW DELHI-29, INDIA.

Application No. 613/Cal/74 filed March 20, 1974.

Addition to No. 1775/72.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A smokemeter capable of measuring the density of smoke present in the gaseous exhaust of an engine comprising a chamber with an elongated tube disposed therein, a collimated source of light disposed at one end of said tube, a photoelectric cell disposed at the opposite end and adapted to be connected to a meter, a blower connected to said tube as described in Parent Patent Application No. 1775/72 (Serial No. 135695) characterized in a inlet connected to said tube for the gaseous exhaust to be sampled, said inlet having a by-pass valve and a moisture trap.

CLASS 50B & 105B. 140779

Int. Cl.-F28e 1/00, F24f 3/00, F28f 3/08.

DEVICE FOR USE WITH AIR COOLERS.

*Applicant & Inventor* : RAM NARAIN KHER, OF D-24, DEFENCE COLONY, NEW DELHI-24, INDIA.

Application No. 1171/Cal/74 filed May 28, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

A device for use with air coolers in which the water is pumped up for soaking the material such as khas deposited in one or more panels of the air cooler, comprising a spindle, a water pressure receiving member fitted at the lower end of said spindle, a bracket through which the said spindle slidably passes, said spindle carrying at its upper end a contacting piece, said bracket having at its upper face a pair of contacts, the arrangement being such that when the water is pumped up, the stream of pumped water keeps the spindle in a raised state by hitting against the water pressure receiving member, but when the water in the source in the reservoir below from which it is pumped, is exhausted the spindle, falls down whereby the pair of contacts thereby allowing the flow of current to a signal device indicating that the source of water has run dry.

CLASS 130-I. 140780

Int. Cl.-C22 3/00.

METHOD FOR THE HYDROMETALLURGICAL RECOVERY OF NICKEL FROM A LATERITIC NICKEL ORE.

*Applicant* : UOP INC., FORMERLY KNOWN AS UNIVERSAL OIL PRODUCTS COMPANY, AT TEN UOP PLAZA—ALGONQUIN AND MT. PROSPECT ROADS, DES PLAINES, ILLINOIS, U.S.A.

*Inventors* : LAURENCE GUY STEVENS, LEONHARD AUGUST GOELLER AND MARILYN MILLER.

Application No. 2237/Cal/74 filed October 5, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims. No drawings

A method for the hydrometallurgical recovery of nickel from a lateritic nickel ore characterised by treating said ore at a temperature of from about 550°C to about 900°C in a reducing atmosphere, such as hereinbefore described, and in contact with a mixture of hydrogen halide and sulfur, cooling the thus treated ore, extracting the cooled ore with an acidic solution containing from about 1% to about 10% of an inorganic acid selected from hydrochloric, hydrobromic, nitric, phosphoric and sulfuric acids, and recovering the extracted nickel from the solution.

CLASS 99F. 140781

Int. Cl.-B65d 11/00, 89/00, 89/02.

IMPROVEMENTS RELATING TO BULK MATERIAL CONTAINERS.

*Applicant & Inventor* : FRANK NATTRASS, OF "FALLOWS END", BREATON, HARROGATE, YORKSHIRE, ENGLAND, AND PETER JOHNSON NATTRASS, OF "TRESCO", CHAIN LANE, KNARESBOROUGH, YORKSHIRE, ENGLAND.

Application No. 2480/Cal/74 filed November 11, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A bag for transporting bulk material comprising an outer bag member having a base section with an opening therein and side walls, means secured to upper parts of said side walls by way of which said bag may be lifted, an inner linear within said outer bag member, said inner linear having a

lower end terminating in a tubular section, a first tube secured to said base section around the opening and projecting outwardly from said base section, a second tube secured to said base section, said first tube lying radially within said second tube and said tubular section lying radially within said first tube, means releasably securing said tubular section within said first tube and means releasably closing said second tube with said tubular section and first tube retained wholly within said second tube by said releasable closing menas.

CLASS $32F_L$. 140782

Int. Cl.-F16n 15/00.

PROCESS FOR PREPARING AMINO-CONTAINING ORGANIC COMPOSITIONS.

*Applicant*: THE LUBRIZOL CORPORATION, BOX 17100 EUCLID STATION CLEVELAND, OHIO 44117, USA.

*Inventor*: CARL WALTER STUEBE.

Application No. 2735/Cal/74 filed December 12, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A process for preparing an amino-containing organic compositions which comprises reacting in any sequence at a temperature above 20°C.,

(A) at least one amino compound as herein described containing at least one nitrogen atom directly bonded to at least one hydrogen atom,

(B) at least one carbonyl compound as herein described selected from the group consisting of aldehydes and ketones containing one to about thirty-six carbon atoms, and

(C) at least one halogenated hydrocarbon as herein described of at least about ten carbon atoms wherein at least one halogen is directly bonded to an aliphatic carbon atom.

CLASS 127-I. 140783

Int. Cl.-F16d 3/00.

FLEXIBLE COUPLINGS.

*Applicant*: FLENDER MACNEILL GEARS LTD., 2 FAIRLIE PLACE, CALCUTT-1, WEST BENGAL, INDIA.

*Inventor*: KRISHNASWAMY ASOKAN.

Application No. 450/Cal/75 filed March 7, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A flexible coupling for power transmission in which on the hubs of the driving shaft and the driven shaft are formed jaws and the claws on one coupling half engage the jaws of the other coupling half, characterized by that for affording flexibility to the coupling there is provided a ring having radially extending elements of flexible material such that in the engaged position of the coupling halves, the said elements and the claws of the two coupling halves are alternatively disposed, said ring being disposed below the inner peripheries of the claws of the two coupling halves.

CLASS 128F. 140784

Int. Cl.-A61m 1/02.

BLOOD FILTRATION UNIT.

*Applicant*: JOHNSON & JOHNSON, AT 501 GEORGE STREET, NEW BRUNSWICK, NEW JERSEY, UNITED STATES OF AMERICA, AND PUROLATOR, INC., AT 970 NEW BRUNSWICK AVENUE RAHWAY, NEW JERSEY, UNITED STATES OF AMERICA.

*Inventors*: KURT HAMMER, JAMES HENDERSON, GEORGE LANE, WILLIAM LAUER, ALFRED LUCEYK AND FRANCIS SERVAS.

Application No. 555/Cal75 filed March 20, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcuta.

10 Claims

A blood filtration unit comprising a housing for a filter cartridge, a drip chamber disposed at the upper portion of said housing, a blood inlet disposed from said drip chamber, one end of said inlet extending into the chamber and the opposite end of said inlet being attachable to a reservoir for blood, a filter catridge disposed in said housing, said cartridge comprising a top end cap, a bottom member, and an elongated filetr media having a hollow center core sealed between said top cap and bottom member, said top end cap being solid and having a multipointed configuration, said filter media having substantially the same cross-sectional shape as the top end cap, the outside diameter of the top end cap as measured at the points being substantially the same as the inside diameter of the housing, said bottom member having a centrally located blood outlet, one end of said outlet connecting with the hollow core of the filter media, the other end of said outlet being adaptable to a blood administration set, and said housing being secured to said bottom member at the periphery of said bottom member.

CLASS $32F_{8a}$ & $F_{3c}$ & $60X_{3d}$. 140785

Int. Cl.-C07c 35/22, 39/00, 43/02.

A PROCESS FOR THE SYNTHESIS OF 2-ALKYL-6-ETHYL-3-(p-SUBSTITUTED PHENYL)-TRANS-BICYCLO (4, 3, 0)-NONAN-7β-OLS AND DERIVATIVES AS ANTI-FERTILITY AGENTS.

*Applicant*: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-1, INDIA.

*Inventors*: RAM CHANDRA GUPTA, NITYA ANAND, VED PRAKASH KAMBOJ.

Application No. 1425/Cal/75 filed July 22, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

1 Claim

A process for the synthesis of 2α-alkyl-6β-ethyl-3β(*p*-substituted phenyl)-*trans*-bicyclo(4, 3, 0)-nonan-7β-ol and corresponding 4′-tertiary amino ethers wherein the 2-alkyl radical contains one to six C atoms such as methyl, ethyl or propyl and the 4′-tertiary amino residue may be lower alkylamino or a heterocyclic base such as pyrrolidine or piperidine, which is characterised by the condensation of 2-alkyl-6β-ethyl-7β-hydroxy bicyclo (4, 3, 0)-non-1-en-3-1 with *p*-substituted phenyl lithium to give 2-alkyl-6β-ethyl-3-(*p*-substituted, phenyl)-3hydroxy-*trans*-bicyclo (4, 3, 0)-non-1-en-7-ol(3) which on dehydration gave 2-alkyl-6β-ethyl-3-(*p*-substituted phenyl)-bicyclo(4, 3, 0)-non-2, 9-diene-7β-ol (4) which latter on controlled catalytic hydrogenation till one mole of hydrogen was absorbed followed by alkali metal and liquid ammonia reduction gave 2α-alkyl, 6β-ethyl-3β-(*p*-substituted phenyl)-*trans*-bicyclo (4, 3, 0)-nonan-7β-ol which on demethylation using potassium hydroxide and hydrazine hydrate gave the corresponding 4′-hydroxy compounds, which on treatment with a lower alkylamine or a heterocyclic base such as pyrrolidine or piperidine gave the corresponding 4′-*w*-tertiary compounds.

CLASS 32B & 40F. 140786

Int. Cl.-C07c 7/00, B01j 1/00.

SEPARATING ACETYLENIC COMPOUNDS FROM HYDROCARBON MIXTURES.

*Applicant* : SNAMPROGETTI S.P.A., OF CORSO VENEZIA 16, MILAN, ITALY.

*Inventors* : CARLO RESCALLI AND ANTONIO PACIFICO.

Application No. 1000/Cal/75 filed May 19, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

18 Claims

A process for reducing the content of at least one acetylenic compound in a hydrocarbon mixture comprising at least one acetylenic compound and at least one other hydrocarbon compound selected from saturated, mono-olefinic and diolefinic hydrocarbons, which process comprises contacting the hydrocarbon mixture with a compound containing at least one hydroxy group in the presence of an acid ion exchange resin containing mercuric ions to cause reaction between the acetylenic compound(s) and the hydroxy-containing compound thereby reducing the content of the acetylenic compound(s) in the resulting hydrocarbon mixture.

## OPPOSITION PROCEEDINGS

(1)

The opposition entered by Belpahar Refractories Limited to the grant of a patent on application No. 136232 made by Orissa Cement Limited as notified in Part III, Section 2 of the Gazette of India dated the 12th April, 1975 has been dismissed.

(2)

The application for Patent No. 138258 made by Council of Scientific and Industrial Research in respect of which an opposition was entered by The Associated Cement Companies Limited as notified in Part III, Section 2 of the Gazette of India dated the 3rd July, 1976 has been treated as withdrawn.

## PRINTED SPECIFICATION PUBLISHED

(1)

A limited number of printed copies of the undernoted specifications are available for sale from the Officer-in-Charge, Government of India, Central Book Depot, 8, Hastings Street, Calcutta, at two rupees per copy :—

94047 94303 97498 102450 106300 111038 111099 111210 111256 111261 111289 111372 111398 111399 111527 112279 112534 112565 112578 112622 112678 112822 112931 112934 113028 113348 113425 113428 113432 113485 113678 113785 113802 113879 113882 113952 113956 114314 114322 114444 114468 114508 114509 114576 114863 114905 114925 114961 114989 115175 115444 115490 115506 115663 115818 116284 116470 117779 117905 118056 118677 119557.

(2)

117910 117911 117912 117957 118080 118125 118226 118445 118606 118984 119114 120015 120297 120765 121691 121790 121889 122208 122417 123151 124109 125700 126827

(3)

111104 111333 111358 111453 111480 111665 111688 111819 112091 112157 112165 112321 112597 112610 112667 112684 112689 112710 112766 112784 112809 112982 113010 113524 113657 113710 113843 113845 114006 114103 114105 114363 114374 114673 114754 115063 115141 115164 115303 115320 115395 115435 115936 115939 116087 116420 117654 118730.

(4)

120815 120822 120861 120869 121152 121157 121495 121648 122160 122204 122246 122263 122267 122603 122642 122848 122997 123254 123355 123364 123380 123859 124017 124065 124107 124163 124205 124251 124254 124345 124496 124683 124693 124753 124990 125097 125114 125309 125426 125628 125869 125896 126747 127244.

(5)

115235 118192 118193 118195 118199 118200 118201 118202 118203 118211 118212 118213 118214 118215 118216 118217 118219 118220 118221 118222 118223 118224 118225 118227.

(6)

138401 138403 138404 138410 138411 138412 138415 138419 138421 138423 138424 138425 138427 138428 138432 138436 138437.

(7)

138490 138492 138495 138502 138505 138506 138515 138525 138526.

## PATENTS SEALED

90628 108690 110093 111487 117427 117679 117216 135616 136863 137587 137946 138077 138212 138469 138615 138690 138715 138732 138734 138739 138740 138743 138751 138752 138753 138755 138756 138757 138760 138763 138765 138770 138771 138773 138774 138775 138776 138778 138779 138780 138781 138785 138787 138788 138794 138795 138800 138823 138827 138832 138842 138843 138844 138848 138863 138888 138909 138910 139001 139024 139031.

## CORRECTION OF CLERICAL ERRORS UNDER SECTION-78

(1)

The title of the application and specification of the application for patent No. 137804 the acceptance of complete specification of which was notified in the Part-III, Section-2 of the Gazette of India dated the 10th January 1976 has been corrected under sub-section (3) of Section 78 of the Patents Act, 1970.

(2)

The title of the application and specification of the application for Patent No. 138235 the acceptance of the complete specification of which was notified in the Part-III, Section-2 of the Gazette of India dated the 10th January 1976 has been corrected under sub-section (3) of Section 78 of the Patents Act, 1970.

## AMENDMENT PROCEEDINGS UNDER SECTION 57

Notice is hereby given that E. I. Du Pont De Nemours and Company, a corporation organised and existing under the laws of the state of Delaware, United States of America, located at Wilmington, Delaware, United States of America, have made an application under Section 57 of the Patents Act, 1970 for amendment of specification of their application for Patent No. 127839 for "Plant growth regulant composition". The amendments are by way of explanation and correction to define the invention more clearly. The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700017, on any working day during the usual office hours or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a notice of opposition on the prescribed form 30 within three months from the date of this notification at the Patent Office, Calcutta. If the written statement of opposition is not filed with the notice of opposition, it shall be left within one month from the date of filing the said notice.

## REGISTRATION OF ASSIGNMENTS, LICENCES, ETC. (PATENTS)

Assignments, licences or other transaction affecting the interests of the original patentees have been registered in the following cases. The number of each case followed by the names of the parties claiming interests :—

133562 .....M/s. Indian Explosives Limited.

136014 .....M/s C. Eugen Maier GmbH.

## COMMERCIAL WORKING OF PATENTED INVENTIONS

The following patents in the field of General & Mechanical Engineering Industry are not being commercially worked in India as admitted by the patentees in the statements filed by them under Section 146(2) of the Patents Act, 1970, in respect of Calendar year 1975 generally on account of want of requests for licences to work the patented inventions, persons who are interested to commercially work the said patents may contact the patentee for the grant of a licence for the purpose.

LIST NO. 5

| Sl. No. | Patent No. | Date of Patent | Name and address of the Patentee | Brief title of the invention |
|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 |
| 1. | 125806 | 20-3-1970 | M. M. Suri, B-14, Greater Kailash, New Delhi. India. | Power unit for high speed locomotives employing diesel engine & gas furnace. |
| 2. | 134318 | 19-1-1972 | Sealed Power Corporation, 2001 Sanford St., Muskegon, Michigan 49443, U.S.A. | Piston ring assemblies. |
| 3. | 134319 | 19-1-1972 | Sperry Rand Corporation, Crooks & Maple Road, Troy, Michigan 48084, U.S.A. | Valves for fluids. |
| 4. | 134328 | 19-1-1972 | Moskovskoe O. T. Nauchno Issledovatellanogo, Naryshkinkaya Albya 5, Moscow, USSR. | Feeder for bulk materials. |
| 5. | 134343 | 20-1-1972 | Elkem Spigerverket A/S, Elkemhuset, Middlethungsgaten 27, Oslo, Norway. | Arrangement for ventury gas scrubbers. |
| 6. | 134380 | 25-1-1972 | Westinghouse Electric Corpn., Pittsburgh, Pennsylvania, U.S.A. | Reverse osmosic module. |
| 7. | 134381 | 25-1-1972 | Agrophysics Inc; 360 Pine Street, San Francisco, California, U.S.A. | Device for insertion into the reproductive tract of animals or human beings. |
| 8. | 134386 | 25-1-1972 | SCM Corporation, 299 Park Avenue, New York, New York 10017, USA. | Type writer ribbon cartridge. |
| 9. | 134409 | 28-1-1972 | Alcan Research and Development Ltd., 1 Place Ville Marie, Montreal, Quebec, Canada. | Direct chill casting of ingots. |
| 10. | 134422 | 29-1-1972 | L'Air Liquide, Societe Anonyme, Pour L' Etude Et L'Exploitation Des Procedes Georges Claude, 75, Quai d' Drsay-75-Paris, 7 eme, France. | Method and installation for the compression of a fluide by the expansion of another fluide. |
| 11. | 134437 | 30-4-1973 | Harbans Lal Malhotra Etc. 12, New CIT Rd., Calcutta-12, India. | Razer blades. |
| 12. | 134452 | 1-2-1972 | USS Engineers and Consultants Inc., 600 Granr St. Pittsburg, Pennsylvania, U.S.A. | Thin flat folled steel products having substantial resistance. |
| 13. | 134454 | 1-2-1972 | Alex Lawrie & Co. Ltd. Dunster House, 37 Mineing Lane, London E. C. 3, England | Processing of green tea leaf. |
| 14. | 134457 | 1-2-1972 | Federal Mogul Corpn., 26555 Northwestern Highway, Southfield, Michigan 48075, USA. | Clutch release bearing. |
| 15. | 134477 | 2-2-1972 | Soundfolds Corpn., of 3704, Wilmington Dayton, Ohio 45429, USA. | Support structure for cloth like material. |
| 16. | 134482 | 3-2-1972 | Council of Scientific and Industrial Research, Rafi Marg, New Delhi-1. India. | Visco pump bearing seal device for supporting axial and radial loads and for dynamic sealing. |
| 17. | 134509 | 5-2-1972 | Girling Ltd., Kings Road, Tyselay, Birmingham 11, England. | Adoptor assemblies for connecting complementary members. |
| 18. | 134510 | 5-2-1972 | Do. | Do. |
| 19. | 134511 | 5-2-1972 | Do. | Do. |
| 20. | 134512 | 5-2-1972 | Joseph Lucas (Industries) Ltd., Great King Street, Birmingham 19, England. | Control apparatus for an I/C engine fuel injection system. |
| 21. | 134539 | 8-2-1972 | Veb Polygraph; 59, Zweinaundarfer Strasse, 705 Leipring, East Germany. | Thread sealing together two sheet portions. |
| 22. | 134540 | 8-2-1972 | Do. | Thread stitching method and apparatus, |
| 23. | 134541 | 8-2-1972 | Do. | Stitching apparatus. |
| 24. | 134542 | 8-2-1972 | Do. | Folded and thread sealed thread products. |
| 25. | 134560 | 10-2-1972 | Sir James Farmer Norton & Co., Adelphi Street, Salfords, Manchester, Lancashire, M60QHH, England. | Webs. |

| 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|
| 26. | 134387 | 11-2-1972 | Wilhelm Stahlecker GmbH; 7341 Reichenbach, West Germany. | Spinning turbine. |
| 27. | 134399 | 14-2-1972 | Dresser Industries, Inc; Rapublic National Bank Bldg; P.O. Box 716, Dallas, Texas 75221, U.S.A. | Annular seal assembly. |
| 28. | 134500 | 14-2-1972 | Do. | Compressor pump or like. |
| 29. | 134607 | 14-2-1972 | Sunstrand Corpn; 2531 Eleventh Street, Rocford, Illinois, USA. | Hydromechanical transmission. |
| 30. | 134616 | 15-2-1972 | Industrial laboratoriet AB, Muntgatan 21, S/552, 57, Jonkoping, Sweden. | Machines for manufacture of wax matches. |
| 31. | 134627 | 16-2-1972 | Dunlop Ltd., Dunlop House, Ryder Street, St. James, London S.W. 1, England. | High performance pneumatic tyres. |
| 32. | 134628 | 16-2-1972 | Westinghouse Brake and Signal Company Ltd., 82 New York Way, Kings Cross, London N1 9AJ, England. | Valve means. |
| 33. | 134629 | 16-2-1972 | Dejoo Tea Co Ltd., P.O. North Lakhimpur, Assam, India. | Automatic weighing machine. |
| 34. | 134632 | 16-2-1972 | Vsesojuzhy N. I. Institut Sttioitelnogo I Dorozhnogo Mashinostroinia, 2, Frunzenskaya, Ulitsa 8, Moscow, USSR. | Single bucket excavator. |
| 35. | 134653 | 17-2-1972 | USS Engineers and Consultants Inc; 600 Grant St., Pittsburgh, Pennsylvania, USA. | Printing and dispencing lables. |
| 36. | 134654 | 17-2-1972 | Dresser Industries Inc; P. O. 718, Dallas, Texas 75221, U.S.A. | Packing for compressors pumps or like. |
| 37 | 134662 | 18-2-1972 | Sunkist Growers, Inc; 14130 Riverside Drive, Sherman Oaks, California, U.S.A. | Automatically selecting between, a plurality of generally spesical objects. |
| 38. | 134663 | 18-2-1972 | Sherritt Gordon Mines Ltd; 25 King street West, Toronto, Ontario, Canada. | Separation of solids from a liquid containing said solids. |
| 39. | 134664 | 18-2-1972 | Dunlop Ltd; Dunlop House, St. Jems's, London S. W. 1,, England. | Wheeled vehicle having skid control system. |
| 40. | 134665 | 16-10-1970 | Girling Ltd; Kings Rd, Tyseley, Birmingham 11, England. | Hydraulic vehicle braking system. |
| 41. | 134669 | 18-2-1972 | Envirotech Corpn; 537, West 6th South, Salt lake city, Uttah, U. S. A. | Agitator drive assembly for drum type filters. |
| 42. | 134674 | 19-2-1972 | Moskovskoe O. T. Nauchno, Issledovatels kogo, Naryshkinskaya alleya 5, Moscow, USSR. | Device for feeding looser materials. |
| 43. | 134677 | 19-2-1972 | USS Engineers and Consultants Inc; 600 Grant Street, Pittsburgh, Pennsylvania, USA. | Controlling weigh and distribution of a coating on a substrate. |
| 44. | 134693 | 21-2-1972 | Dunlop Ltd; Dunlop House, Ryder Street, St. Jems's, London, S. W. 1, England. | Manufacture of tyres. |
| 45 | 134721 | 23-2-1972 | C. A. V. Ltd; Well Street, Birmingham 19, England. | Governor Mechanism. |
| 46. | 134722 | 23-2-1972 | USS engineers and Consultants Inc; 600 Grant St, Pittsburgh. Pennsylvania, U. S. A. | Adjustable conducting roll apparatus. |
| 47. | 134778 | 1-3-1972 | Nippon Card Cloth ng Co. Ltd. No. 2, Shibasaki, Chogu-shi, Tokyo, Japan. | Flat arrangement of a fixed type unusable for carding engines. |
| 48. | 134810 | 2-3-1972 | Globe Union Inc; 5757 Green Bay Avenue, Milwanke, Wisconsin 5321, U S. A. | Industrial type variable speed centrifuge. |
| 49. | 134831 | 4-3-1972 | David L Rowland; 8 East 62nd Street, New York, New York 10021, U. S. A. | Assemblies seats and backs usable furniture in automobiles and other transport vehicles. |
| 50. | 134859 | 7-3-1972 | Mefina S. A., 5 route de Beaumont, Friboutg, Switzerland. | Sewing machines. |
| 51. | 134876 | 8-3-1972 | Westinghouse Electric Corpn; Pittsburgh, Pennsylvania, U. S. A. | Speed metallic-plate type of arc-chute for switch. |
| 52. | 134885 | 8-3-1972 | H. Wigger & Co. 475 Unrd/Westy Marxen Strasse 39/41 German Federal Republic. | Chapper (Chipping machine) |

| 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|
| 53. | 134889 | 9-3-1972 | Girling Ltd; Kings Rd, Tyseley, Birmingham 11, England. | Sliding caliper disc brakes. |
| 54. | 134890 | 9-3-1972 | —do— | Sliding caliper disc brakes. |
| 55. | 134905 | 27-10-1970 | Raythean Co. Lexington Country, Middlesex, Massachusetts, U. S. A. | Heat exchange structure. |
| 56. | 134947 | 15-3-1972 | Japan Food Storage & Packing Co. Ltd. 15, Morimoto-cho, Shimogamao. Sakyo-ku, Kyoto City, Japan. | A method for packing free-flowing granular or powdered materials into a tightely sealed shapped form. |
| 57. | 134960 | 16-3-1972 | Australian Wire Industries Proprietary Ltd, 500, Bourke St, Malbourne, Victoria, Australia. | Apparatus for cooling coating an moving wires strips or other continuous length of materials. |
| 58. | 134970 | 17-3-1972 | USS Engineers and Consultants Inc; 600 Grant Street, Pittsburgh, Pennsylvania, U. S. A. | Determining the temperature of a surface from the radiation emitting from the surface. |
| 59. | 134975 | 17-3-1972 | Wilhelm Stahlecker GmbH., D-7341 Reichebach, bei Geislingen/Steige W. Germany. | Break or open end spinning rotor or turbine. |
| 60. | 134980 | 18-3-1972 | Vysoke Uceni Technike, Bruo, Czechoslovakia. | Fuel injection pump of the piston type for I. C. engine. |
| 61. | 134991 | 20-3-1972 | Repla Internationale S. A. H.; 56, Boulevard, Napolean, Luxemburgh. | Means for producing article-catching strip and an article strip produced thereby. |
| 62. | 134996 | 20-3-1972 | Koninklijke Emballage Industrie Van Leer N. V., Amsterdamseweg 206; Amstelveen, The Netherlands. | Bushing for coupling such as a container closure. |
| 63. | 135018 | 22-3-1972 | Girling Ltd. Kings Road, Tyseley, Birmingham 11, England. | Seal for sealing an annular space. |
| 64. | 135019 | 22-3-1972 | Sperry Rand Corpn; Crooks & Maplerd, Troy, Michigan 48083, U. S. A. | Hydraulic pumps. |
| 65. | 135022 | 22-3-1972 | William Prym Werke Kg, 519 Stolberg, Rhld, Zweefaler Str, 5-7, Federal Republic of Germany. | Sliding clasp fasteners. |
| 66. | 135033 | 23-3-1972 | Siemens A. G.; Berlin & Munich, West Germany. | Apparatus for use in monitoring tensile stresse in continuously travelling webs of materials. |
| 67. | 135036 | 23-3-1972 | Jack Blackburn, 215 Fernside Avenue, Almondbury, Huddersfield, Yorkshire, England. | Pevement like sites. |
| 68. | 135046 | 24-3-1972 | Vsesojuzny P. T. Institut, Tyazhologo Mashinostroenia Prospelt Mira, 106 Moscow, USSR. | Device for rigging the position gripping a work piece. |
| 69. | 135057 | 25-3-1972 | Karl Fischer Apparate-U Rohrleitungsbau, Holzhauserte, 159/165, 1 Berlin 27, Federal Republic of Germany. | Tube bundle heat exchanger. |
| 70. | 135069 | 27-3-1972 | Thermo King Corpn; Minneapolis, Minnesota, U. S. A. | Compressor refrigerant system employing fluro carbon refrigerant combined with a lubricating composition. |
| 71. | 135083 | 28-3-1972 | Fruehauf Corpn; 2350 Blanding Avenue, Alameda, California 94501, U. S. A. | A rope suspension system. |
| 72. | 135084 | 28-3-1972 | Automotive Products Ltd, Tachbrook Rd, Leamingron Spa, Warwickshire, England. | Friction clutches. |
| 73. | 135087 | 28-3-1972 | Dana Corpn; 4500-Door Street, Toledo, Ohio, U. S. A. | Bearing cup for universal joint |
| 74. | 135099 | 29-3-1972 | Svenska Aktiebolaget Bromsregulator; Adelgatan 5, 211 22 Malmo, Sweden. | Force transmission device of a vieghing valve for vehicle. |
| 75. | 135126 | 1-4-1972 | Mark Isaakovich Fronkel, Leningrad Ulitsa Narby Sheva, 6 Korpus 2 KV 20, USSR. | Direct flow cylindrical valve. |
| 76. | 135151 | 4-4-1972 | USS Engineers and Consultants Inc; 600 Grant Street,, Pittsburgh, Pennsylvania, U. S. A. | Operative mechanism for slidable gate closure. |
| 77. | 135167 | 4-4-1972 | Parks Cramer Co. P. O. Box 444, Fitchburg, Massachusetts, U. S. A. | Cleaning elongated textile machines. |

| 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|
| 78. | 135168 | 4--1974 | Maschinenfabrik Zell etc; 7867 Zell (Wessental federal Republic of Germany. | Winding machine for sheet materials. |
| 79. | 135176 | 5-4-1972 | MC Nell Corpn; 96 East Crosier street, Akron, Summit County, Ohio 44311, U. S. A. | Apparatus for controlling manufacturing process. |
| 80. | 135177 | 5-4-1972 | USS Engineers & Consulants Inc; 600 Grant Street, Pittsburgh, Pennsylvania, U. S. A. | Treating liquid steel. |
| 81. | 135186 | 6-4-1972 | Do. | Apparatus for replacing a holder for a pouring tube on bottom pour vessel. |
| 82. | 135216 | 10-4-1972 | Mefina S.A. 5, route de Beaumont, Fribourg, Switzerland. | Device for coupling a fly wheel to a shaft. |
| 83. | 135234 | 11-4-1972 | Svenska Rotor Maskiner Aktiebolag, Nacka, Sweden. | Rotary I. C. engine |
| 84. | 135237 | 11-4-1972 | Sulzer Brothers Ltd; Winterthur, Switzerland. | Differential gears |
| 85. | 135250 | 12-4-1972 | Ford Motor Co. of Canada; Canadian Rd, Oakville, Ontario, Canada, | Guided vehicle power supply sytem. |
| 86. | 135305 | 17-7-1972 | New Standard Engineering Co. Ltd; NSE Estate, Goregaon, Bombay, India. | Device for mounting suction tubes on front rollers of textile spinning machines |
| 87. | 135314 | 18-4-1972 | Mefina S. A., 5, route de Beaumont. Fribairn. Switzerland. | Sewing machine. |
| 88. | 135329 | 19-4-1972 | The Goodyear Tire & Rubber Co., 1144 East Market Street, Akron, Ohio, USA. | Screen member. |
| 89. | 135342 | 24-8-1972 | Spiroll Corpn Ltd., 385 Dawson Rd, Winnipeg, Manitoba, Canada. | Hollow core structures of concrete and the like. |
| 90. | 135353 | 15-9-1971 | Nikanth Shridhar Sathaya; Nalanda D-13 Anushakti Nagar, Bombay-94, India. | Device for lighting a gas stove. |
| 91. | 135369 | 25-5-1972 | Girling Ltd; Kings Road, Tyseley, Birmingham 11, England. | Fluid level indicating devices. |
| 92. | 135385 | 3-6-1972 | Conical Containers Company, (Proprietary) Ltd; Prince Street Extension, Industria West, Johannesburg, Transvaal, Republic of South Africa. | Apparatus for sealing plastic containers. |
| 93. | 135405 | 8-7-1971 | Carrier Corpn; Syracuse, New York, USA. | Hermetic motor compressor unit. |
| 94. | 135428 | 26-4-1972 | Thomas Walker Ltd, St, Paul's Square, Birmingham B 3 1QY, England. | Fastening devices. |
| 95. | 135433 | 5-7-1972 | Christensson Maskiner & Petenter Aktiebolag, Ekbacksvagen 32-34, Bromma, Sweden. | Foil for closing packages possible to open. |
| 96. | 135441 | 18-7-1972 | Glass Tube & Components Ltd; Sheffield Rd, Chesterfield, Derbyshire, England. | One piece stemware from glass etc. |
| 97. | 135447 | 5-5-1972 | Mefina S. A.; 5 route de Beaumont, Fribourg, Switzerland. | Sewing machine. |
| 98. | 135450 | 23-7-1971 | Sealed Power Corpn; 2001 Sanford Street, Muskegon, Michigan 49443, USA. | Spacer expanders. |
| 99. | 135451 | 23-7-1971 | Do. | Do. |
| 100. | 135452 | 23-7-1971 | Do. | Do. |
| 101. | 135453 | 23-7-1971 | Do. | Do. |
| 102. | 135454 | 5-7-1972 | Ruti Machinary Works Ltd; CH-8630 Ruti, Zurich, Switzerland. | Device for braking picker stick of loom. |
| 103. | 135455 | 29-6-1972 | Do. | During weft inserters. |
| 104. | 135469 | 18-5-1972 | Variable Kinetic Drives Ltd, Rose Cottage, Pillary Green, London, England. | Tourque Converter Coupling. |
| 105. | 135473 | 25-7-1972 | Dunlop Ltd; Dunlop House,Ryder Street, St. James's, London, S.W. 1, England. | Wheel assemblies. |
| 106. | 135474 | 25-7-1972 | Do. | Do. |

| 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|
| 107. | 135490 | 14-9-1972 | Federal-Mogul Corpn; 26555 North Western Highway, Southfield, Michigan 48075, USA. | High speed air pressure sensitive seal and bearing system. |
| 108. | 135497 | 15-6-1972 | Imperial Chemical Industries Ltd; Imperial Chemical House, Millbank, London S.W. 1, England. | Controlled feeding a powdered material. |
| 109. | 135501 | 15-5-1972 | Hans Steager & Manfred Malzacher; D-7024 Bernhausen, Talstrasse 84, West Germany. | Connecting elements for panels. |
| 110. | 135506 | 12-6-1972 | Midland-Ross Corpn; 55 Public Square, Cleveland. Ohio 44113. | Railway car coupler and spring guide assemblies for same. |
| 111. | 135510 | 29-8-1972 | Envirotech Corpn; 537 West 6th South, Salt Lake City, Utch, U.S.A. | Belt guide and tensioning device for horizontal filter. |
| 112. | 135511 | 4-9-1972 | Universal Oil Products Co; No. 30, Algonquin & Mt. Prospect Roads, Des Plaines, Illinois, USA. | Tubing or plate for heat transfer process involving nucleate boiling. |
| 113. | 135524 | 15-6-1972 | Moskovsky G. Pedagogicheesky Institut Inostrannykh, Metro Storevskaya Ulitsa 38; Moscow, USSR. | Teaching machine preferably for studying foreign languages. |
| 114. | 135529 | 10-5-1972 | Central Overseas Corpn; 3-80, 31st Street, Panama City, Republic of Panama. | Flour mill. |
| 115. | 135532 | 12-9-1972 | Intermenna (Proprietary) Ltd; 25th Floor, Trust Bank Centre, Corner Main and Eloof Streets, Johannesburgh, South Africa. | Shearing machines. |
| 116. | 135547 | 4-7-1972 | Tadeusz Sendzimir, 269, Brookside Rd, Waterbury, Connecticut, 06720, USA. | Rolling mills. |
| 117. | 135557 | 20-10-1972 | Westinghouse Electric Corpn; Pittsburgh, Pennsylvania, USA. | Mooring system. |
| 118. | 135562 | 1-8-1972 | Envirotech Corpn; 537, West 6th South, Salt Lake City, USA. | Rotory filters. |
| 119. | 135568 | 4-10-1972 | The Goodyear Tire & Rubber Co, 1144 East Market Street, Akron, Ohio, USA. | Towable floating storage containers. |
| 120. | 135587 | 16-11-1972 | Shell Internationale Research Maatschappio B.V., 30 Carel Van Bylandtlaan, The Hague, The Netherlands. | Package for Hazardous materials. |
| 121. | 135602 | 16-5-1972 | Westinghouse Air Brake Co; Pittsburgh, Pennsylvania, USA. | Quick service valve device for fluid pressure brake system. |
| 122. | 135603 | 26-4-1972 | Heimo Gerateban, 7972/Isny doligaen Max Eytwag 42, Federal Republic of Germany. | Spraying or smoke laying appratus. |
| 123. | 135606 | 4-11-1972 | Girling Ltd, Kings Road, Tyseley, Birmingham 11, England. | Two pedal hydraulic braking system. |
| 124. | 135607 | 18-8-1972 | N. V. Bekaert S. A.; Leo Bekaert Strasse 1, B-8550-Zwevegem, Belgium. | Reinforcement for vehicle tyres. |
| 125. | 135611 | 15-6-1972 | D. P. Joshi, R. P. Menon & another, Rly, Staff College Qr. No. 10, Lalbaug, Baroda-4, India. | A screw down stop valve mechanism. |
| 126. | 135615 | 1-6-1972 | Sperry Rand Corpn; Crooks & Maple Rds, Maple, Michigan 48084, USA. | Pumps and motors. |
| 127. | 135621 | 3-7-1972 | William Pryn Werke Kg, 519 Stolberg, Rhld, Zweifaller Ste, 5-7, Federal Republic of Germany. | Sliding clasp fasteners. |
| 128. | 135624 | 20-10-1972 | Reginald Gwyh Brooks; "Mirjiokl", 1 Shetty Park Road, Sketty Green, Swansea, Glamorgan, Wales. | Shaped precision articles from molten metal. |
| 129. | 135632 | 30-8-1972 | The British Steel Corpn, 33, Grosvenor Place, London S.W. 1, England. | Internal lead trimmers. |
| 130. | 135635 | 29-6-1972 | Trutzschler & Co; 407, Rheydt Odenkir Chen, West Germany. | A vertical duck for settling fibrous flock. |
| 131. | 135638 | 13-6-1972 | Emhart Corpn, 426 Colt Highway, Farmington, Connecticut, USA. | Neck ring arm for glassware forming machine. |

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| 132. | 135643 | 11-9-1972 | Dunlop Ltd, Dunlop House, Ryder Street, St. James's, London S.W. 1, England. | Tyres. |
| 133. | 135662 | 26-7-1962 | Institut Elektronik, Akademi Nauk Ugbeksko SSR & another, Ulitsa Observatorskay 85, Taskent, USSR. | Device for cleaning fibrous materials. |
| 134. | 135666 | 26-6-1972 | Extra Corporeal Medical Specialities Inc; Royal & Rose Rds, King of Prussia, Pennsylvania, USA. | Saparable surgical needle. |
| 135 | 135667 | 25-10-1972 | Combustion Engineering Inc; Prospect Hill Rd, Widser Connecticut, USA. | Briquetting press with briquette removal mechanism. |
| 136. | 135668 | 25-10-1972 | Do. | Ram tip screwing arrangements. |
| 137. | 135717 | 16-9-1972 | Metropolitian Tool and Products Ltd; Lilac Grove, Beeston, Nottingham No. 9, IPQ, England. | Drive arrangement for cable reeling drums. |
| 138. | 135718 | 12-1-1973 | Thyssen Niederrhein, 42 Oberhausen, Essener, Str 66, German Federal Republic. | Charging apparatus for shaft furnace. |
| 139. | 135736 | 21-8-1972 | Jerris B. Webb Co; 9000 Alpine Avenue, Detroit, Michigan 48204, USA. | Conveyor system. |
| 140. | 135737 | 14-7-1972 | Girling Ltd, Lings Road, Tyseley, Birmingham 11, England. | Railway brakes. |
| 141. | 135743 | 9-8-1972 | Hepworth & Grandage Ltd; St. John's Works, Badford 4, Yorkshire, England. | Light metal pistons for I-C engines or compressors. |
| 142. | 135745 | 21-10-1972 | Hoechst AG, (Formerly known as Farbwerke Hoechst AG), 6230 Frankfurt Main, Federal Republic of Germany. | Extrusion of highly viscous thermoplastics on a single screw extruder. |
| 143. | 135747 | 18-7-1972 | Hont & Moscrop Ltd; Apex Works, Middlton Junction, County of Lancaster, England. | Textile fibre or paper shrinking machine. |
| 144. | 135751 | 8-8-1972 | The Timken Company, 18.5 DueberAvenue, Canton, Ohio, USA. | Rolling strip material. |
| | | | LIST NO. 6 | |
| 1. | 135759 | 25-5-1972 | Girling Ltd; Kings Road, Tysely, Birmingham 11, England. | Fluid level indicating device. |
| 2. | 135773 | 8-9-1972 | Wilhelm Stahlecker Gmbh; D/7341, Reichenback, bei Geislingen/Steige, West Germany. | Mountings for open-end of break spinning machines. |
| 3. | 135774 | 8-9-1972 | Do. | Open end spinning machines. |
| 4. | 135776 | 16-8-1971 | Brico Engineering Ltd; Holbrook Lane, Conventry, Warwickshire, England. | Making a fuel injector. |
| 5. | 135777 | 2-6-1972 | Institut Elektronic etc., Tashkent Observatorskaya 85, USSR. | Cotton seed delinting machine. |
| 6. | 135779 | 14-7-1972 | Moskovsky O. Trudovogo Krasnogo Znameni Gorni Institut & another of Leninsky prospect 6, Moscow, USSR. | A drilling stem for drilling holes blown out by pressurized air |
| 7. | 135788 | 7-7-1972 | Donald John Steidinger, P. O. Box 224, Barrington, Illinois, USA. | Stuffer sealed envelope assembly and method. |
| 8. | 135798 | 25-10-1972 | Combustion, Engineering, 1000 Prospect Hill Rd., Windsor, Connecticut, USA. | Briquetting press. |
| 9. | 135804 | 8-9-1972 | Anglo American Corpn of South Apica Ltd., 44 main Street, Johnnesburg, Transvaal, Republic of South Africa. | Decking device for mine cages. |
| 10. | 135816 | 13-6-1972 | Elkem-Spigerverket A/S; Formerly Known as Elkem A/S; Elkemhuset Middlethunsgaten 27, Oslo, Norway. | Rotatable gas tight valve. |
| 11. | 135819 | 16-6-1972 | Uralsky Z. T. Mashinostroenia Imeni Sergo Ordzhonikidzne, Sverdlovsk, USSR. | Plant for continuous casting of metal. |
| 12. | 135822 | 19-9-1972 | Massey Ferguson Services, Abraham de Veerstraate, 7/A, Curacoa, Netherlands. | Draft control linkage for tractor. |
| 13. | 135853 | 5-7-1972 | Ford Motor Co of Canad; Canadian Rd., Oakville, Province of Ontario, Canada. | Guided transportation system. |

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| 14. | 135855 | 3-7-1972 | Schubert & Salzer Maschinenfabrik AG, Friedrich, Eberatrasse 84, 8076 Ingolstadt, Germany. | Open end spinning apparatus. |
| 15. | 135856 | 3-7-1972 | Do. | Fibre mixing device. |
| 16. | 135873 | 30-10-1972 | Reed Irrigation International, C/o Luce, Forward, Hamillton & Scripps, Suite 1700 Bank of California Plaza, San Diego California 92101, USA | Irrigation conduit. |
| 17. | 135875 | 22-7-1972 | Hayashibara Biochemical Laboratories Inc; No. 2-3, 1 chome, Shimoshi, Okayama shi, Okayamaken, Japan. | Making shaped bodies from pullulan or a mixture thereof. |
| 18. | 135881 | 25-7-1972 | Franking Raick and J. R. Wieder, 228 West Place, West Wood, New Jersey, U.S.A. | Surgical evacuator. |
| 19. | 135892 | 26-10-1972 | Girling Ltd., Kings Rd., Tyseley, Brimingham 11, England. | Shoe drum brakes. |
| 20. | 135917 | 8-6-1972 | Dunlop Ltd., Dunlop House, Ryder Street, St. Jamess London, S.W. 1, England. | Tyre building apparatus. |
| 21. | 135926 | 15-11-1972 | Massey Ferguson Services, Antilles Abrahamde Veerstraat 7A, Curacao, Netherlands. | Draft sensing unit for tractor. |
| 22. | 135933 | 24-10-1972 | Girling Ltd., Kings Rd., Tyseley, Birmingham 11, England. | Taudon master cylinder for hydraulic braking system. |
| 23. | 135934 | 30-5-1972 | National Institute of Design, Paldi, Ahmedabad-1. | A cycle. |
| 24. | 135935 | 22-11-1972 | Girling Ltd; Kings Rd., Tyseley, Birmingham 11, England. | Internal shoe drum brakes. |
| 25. | 135955 | 17-5-1972 | Sherritt Gordon Mines Ltd., 25 King Street, West, Toronto, Ontario, Canada. | A coin blank or a medallion blank or minted coin or medallion. |
| 26. | 135959 | 15-2-1973 | Indian Jute Industries Research Association, Taratola, Road, Calcutta-53, India. | Means for mechanical extraction of a properation at amount batch oil from textile products. |
| 27. | 135960 | 15-2-1973 | Indian Jute Industries Research Association, Taratola Rd., Calcutta-53, India. | Means for determining oil content in textile products. |
| 28. | 135968 | 2-4-1971 | Scandia Packaging Machinery Co., 500 Belleville, Tumpike, North Arlington, New Jersey 07032, U.S.A. | Packaging machine having package conveyor. |
| 29. | 135969 | 2-4-1971 | Do. | Tear Strip wrappers. |
| 30. | 135970 | 2-4-1971 | Do. | Alighing wrapper sheet in a machine. |
| 31. | 135971 | 2-4-1971 | Do. | Detecting and preventing irregular conditions in apparatus for conveying particles. |
| 32. | 135974 | 25-7-1972 | The Marley Co; 5800, Foxridge Drive,Mission, Kansas, USA. | Cross flow water cooling tower. |
| 33. | 135980 | 28-4-1972 | The Jacobs Manu Co. Ltd; of Archer Tool Works, Archer Rd., Sheffield 8, England. | Drill chucks. |
| 34. | 135988 | 1-5-1972 | Sperry Rand Corpn., Crooks & Maple Roads, Troy, Michigan 48084, USA. | Valves for fluids. |
| 35. | 135992 | 8-6-1972 | Imperial Chemical Industries Ltd., Imperial Chemical House, Millbank, London S. W. 1, England. | Packaging. |
| 36. | 135996 | 5-7-1972 | Veb Polygraph; 4, Wachwavnuthstrasse, 7031, Leipzig, East Germany. | Folding plate cylinders for rotary folders. |
| 37. | 136000 | 3-8-1972 | C. A. V. Ltd., Well Street, Birmingham 19, England. | Rotary sliding vane pulp. |
| 38. | 136002 | 24-4-1972 | Fabrica Italiana Magnet; Marelli S.p.A., via Guastalla, 2-Milano, Italy. | Continuously and intermittently operating vehicle windscreen wiper. |
| 39. | 136006 | 12-10-1972 | Industrie Pirelli SpA., Centro pirelli, Piazza Ducca d'Aosta No. 3m Millan Zolao, Italy. | Pneumatic tyre moulding and curing. |
| 40. | 136025 | 20-7-1972 | Dr. Carl Hann GmbH, Kaiserswethers trasse 270, 5000 Dusseldorf, West Germany. | Tampans. |

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| 41. | 136027 | 12-12-1972 | UBE Industries Ltd., 12-32 Nishihonmach, 1-chome Ube-shi, Yamaguchi, ker, Japan. | Handling device for dummy block and discard in metal extrusion press. |
| 42. | 136031 | 22-8-1972 | Allis Chalmers Corpn., 1126 South 70th Street, W. Allis 14, Wisconsin, USA. | Chain link assembly for grate conveyors. |
| 43. | 136038 | 21-12-1972 | USS Engineers and Consultants Inc., 600 Grant Street, Pittsburgh, Pennsylvania, USA. | Manipulating a hot metal tundish on a gauting car. |
| 44. | 136042 | 27-9-1972 | Bata India Ltd., of No. 30, Shakespeare Sarani, Calcutta-17. | Injector moulding method for forming a sole of two moldable materials. |
| 45. | 136052 | 19-6-1972 | Sperry Rand Corpn., Crooks & Maple Rols, Troy, Michigan 48084, USA. | Valves for fluids. |
| 46. | 136057 | 19-6-1972 | Do. | Do. |
| 47. | 136062 | 22-6-1972 | Girling Ltd., Kings Road, Tyseley, Birmingham 11, England. | Disc for vehicle. |
| 48. | 136077 | 18-7-1972 | British Insulated Callender's Cables Ltd., 21 Bloomsbury St., London W.C.q., England. | Apparatus for drawing wires. |
| 49. | 136081 | 7-6-1972 | Sundance Reinforced Plastics Pty.,Ltd., 123 Hunter St., Newcastle, 2300, Australia. | Building element particularly an integrally formed guttering caves covering for attachment to the edge of a roof. |
| 50. | 136083 | 1-6-1972 | Sperry Rand Corpn., Crooks & Maple Rd, Michigen 48084, USA. | Hydraulic pumps. |
| 51. | 136087 | 21-9-1972 | Caterpillar Tractor Co., 100 N.E., Adams Street, Peoria, Illinois, 61629, USA. | Track idler wheel. |
| 52. | 136090 | 13-2-1973 | Beloit Corpn., 1 Laurence Avenue, Belait, Wiscousin, USA. | Slice lip for headbase of paper making machine. |
| 53. | 136098 | 4-2-1972 | Johnson & Johnson, 501, George Street, New Brunswick, New Jersey, USA. | Dispensing container. |
| 54. | 136103 | 4-1-1972 | Chicago Pneumatic Tool Co., 6 East 44th Street, New York, N.Y. USA. | Crimping mechanism in a net runna. |
| 55. | 136104 | 4-1-1972 | Do. | Nut crimping mechanism. |
| 56. | 136120 | 25-7-1972 | Air Preheater Co. Ind. Andorer Rd., Wellsville, New York, USA. | Rotor for heat exchanger. |
| 57. | 136126 | 16-9-1972 | Deere & Co., Toline Illinois, USA. | Self levelling combine. |
| 58. | 136132 | 16-12-1972 | Hudswell Morico Ltd., Jack Lane, Leeds 10, Yorkshire, England. | Trench shoring frame. |
| 59. | 136135 | 26-9-1972 | Mertin & Bolting Developments Ltd., 1 Police Street, Dunedin, Newzealand. | Turbine unit. |
| 60. | 136141 | 3-11-1972 | The Textile and Allied Industries Research Organisation; Kala Bhavan Premises, Baroda-1, Gujarat, India. | Devcie for doffing or stripping web from doffer from caning machine. |
| 61. | 136142 | 27-5-1972 | Warner& Swasey Co., of University circle Research Centre, 11000 Cader Avenue, USA. | Machine tool. |
| 62. | 136143 | 17-11-1972 | USS Engineers & Consultants Inc; 500 Grant St., Pittsburgh, Pennsylvania, USA. | Bending roll unit for continuous casting machine. |
| 63. | 136147 | 25-8-1972 | International Housing Ltd., P.O. Box No. 4820, Nassao, Bahamas. | Cast in Place concrete structures. |
| 64. | 136152 | 29-7-1972 | Girling Ltd., Kings Road, Tyseley, Birminghm 11, England. | Brake pressur control valves. |
| 65. | 136164 | 7-7-1973 | Snam Progetti S.P.A. Venezia, 16 Milano, Italy. | Vehicles. |
| 66. | 136171 | 27-7-1972 | Industrie Perelli SPA; Centre Perelli, P122a Duca, d'Osta No. 3, Milan 20100, Italy. | Pneumatic tyre for vehicle wheels. |
| 67. | 136186 | 22-11-1972 | Girling Ltd., Kings Rd., Tyseley, Birmingham 11, England. | Brake shoe adjuster. |
| 68. | 136191 | 25-1-1973 | Max Gerhaher, of 844, Stranbing; Niederlayern, Stadtguaben 21, Federal Republic of Germany. | An extruded roofing tile. |

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| 69. | 136200 | 21-11-1972 | M. L. Gulati Division Engineer S.E. Rly., Calcutta, India. | Gauge for finding out railtrack level and or gauge. |
| 70. | 136214 | 30-5-1972 | Actief N.V., Handelskade 24, Willemstad, Curacao, Netherlands. | Fastener, |
| 71. | 136227 | 20-6-1972 | Fitchel & Sachs AG; 872 Schweinfurt and Main, Federal Republic of Germany. | A combustion engine. |
| 72. | 136230 | 14-8-1972 | Societe D' Applications De Products Industrials Etcheniques; of 32 rue Andre Cayron, 92 A snier 5, France, | Solid or hollow bodies used esnecially for coring and moulding in foundry. |
| 73. | 136231 | 31-8-1972 | C.A.V. Ltd. Well Street, Birmingham 19, England. | Liquid fuel injection pumping apparatus. |
| 74. | 136233 | 9-5-1972 | USS Engineers & Consultants Inc; 600 Grant St., Pittsburgh, Pennsylavania, USA. | Self aligning and flexing guide roll rock for continuous casting machine. |
| 75. | 136234 | 9-5-1972 | Do. | Continuous casting machine. |
| 76. | 136255 | 23-2-1973 | Niranjan Day ; C/o United Suppliers Co, 32 Saheed Subal Rd, G,P.O. Box 501, Chittagong. Bangladesh. | Transfusion equipment or apparatus. |
| 77. | 136256 | 10-5-1972 | The Loveshaw Corpn., 61 East Industry Court, Deer Park, Long Island, New York, USA. | Single motor driver of forming winder collect |
| 78. | 136270 | 25-10-972 | Institut Gurnoi M.T. etc., Donetsk, Teatralhy Prospekt 7. USSR. | Conveyor type weighing apparatus. |
| 79. | 136279 | 17-2-1973 | Thyssen Niederrhein, of 42 Oberhausen, Essener Str. 66, Federal Republic of Germany. | Flap type closure an draw of apparatus for spongy iron. |
| 80. | 136287 | 29-8-1972 | Gerard Blum, of12 rue, Pont Prouiller, La Trinche, Isere, France. | Measurement of area of flat flexible article. |
| 81. | 136289 | 21-9-1972 | Trutzschler & Co., 407 Rheydt Odenkirchen, West Germany. | A shaft for conveying fibre flock pneumatically. |
| 82. | 136317 | 4-10-1972 | Textron Inc: 40 Westminster Street, Providence, Rhode Island, USA. | Helicopter vibration isolation. |
| 83. | 136330 | 15-1-1972 | Ethicon Inc: Somerville, New Jersey, USA. | Retention suture bridge. |
| 84. | 136354 | 3-5-1972 | Dunlop Ltd.; Dunlop House, Hyder Street, St., James's, London, S.W. 1, England. | Pneumatic tyres for aeroplanes. |
| 85. | 136371 | 19-8-1972 | The Goodycar Tire and Rubber Co., 1144 East Market Street, Akron,Ohio, USA. | A damage detector system for a movable belt having driving mean. |
| 86. | 136385 | 31-8-1972 | Nirman Hohn Garrod; of Great Common, Bletchingley, Surrey, England. | Sleeves for gramophone records. |
| 87. | 136387 | 28-9-1972 | USS Engineers & Consultants Inc: 600 Grant St., Pittsburgh, Pennsylvania, USA. | Continuous casting by means of vertically descending starter bar. |
| 88. | 136398 | 13-12-1972 | Knorr. Bremse; of Federal Republic of Germany. | Control valve for pressure air brake installation on railway vehicles. |
| 89. | 136404 | 12-6-1972 | Thomas Walker Ltd.; 39 St. Paul's Square, Birmingham B3 1Qy, England. | Backing member for garment fastening devices. |
| 90. | 136413 | 21-5-1973 | Siemens A.G. of Berlin & Munich, Germany (West). | Temperature control system. |
| 91. | 136416 | 31-1-1973 | Ube Industries Ltd.; 12-32, Nishihonmachi, 1-chome, Ulce-she, Yamaguchi-ken, Japan. | Stem fixing apparatus for extrusion process. |
| 92. | 136434 | 16-5-1972 | Beteilgungs-AG, Fur Haustechnik, Glarus, Switzerland. | Green House. |
| 93. | 136436 | 23-10-1972 | Koppers Co., 436 Seventh Avenue, Pittsburgh, Pennsylvania, USA. | An annulus for use in resilient coupling. |
| 94. | 136448 | 22-12-1972 | USS Engineers & Consultants Inc; 600 Grant St., Pittsburgh, Pennsylvania, USA. | Cutting continuously formed casting into short length segments. |
| 95. | 136453 | 27-6-1972 | Spiroll Copn. Ltd.; 385 Dawson, Road, Winnipeg, Manitoba, Canada. | Forming shear key way on sides of extruded construction slates. |

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| 96. | 136468 | 1-2-1973 | Ube Industries Ltd.; 12-32, Nishihinmachi, 1-chome, Ube-shi, Yamaguchi-ken, Japan. | Die Exchangers of a extruding press. |
| 97. | 136472 | 15-3-1972 | Girling Ltd.; Kings Road, Tyseley, Birmingham 11, England. | Fluid level indicating devices. |
| 98. | 136473 | 30-3-1973 | Lansing Bagnall Ltd.; of Kingsclare Rd., Basingstoke, Hampshire, England. | Industrial pettet & stillage trucks. |
| 99. | 136476 | 6-12-1972 | William S. Rouverol, of 219, Benita, Sausaiita, California 94965, USA. | Rolling contact gearing. |
| 100. | 136483 | 13-12-1972 | Marcona Corpn; 1 Maritime Plaza, San Francisco, California, USA. | Liquid jet nozzle. |
| 101. | 136490 | 6-7-1972 | Tsentralsky N. I. Proektny Institut; of Gorky, Moskovskoe, Strasse, 85, USSR. | Lubrication of external surface of drilling string. |
| 102. | 136497 | 29-8-1972 | Mc Neil Corpn; 96 East Crosier Street, Akron, Summit County, Ohio 44311, USA. | Retarding tyres. |
| 103. | 136509 | 5-1-1973 | Caterpillar Tractor; 100 N.E. Adams Street, Peoria, Illinois 61629, USA. | Air Cooled resilient coupling assembly. |
| 104. | 136520 | 20-9-1972 | Envirotech Corpn; 539, Web 6th South, Salt Lake City, Utah, USA. | A filter press. |
| 105. | 136529 | 10-10-1972 | Caledowan Mining Co. Ltd.; Cartton House, Carton-on-Preut Nr. Neward, Nottinghamshire, England. | Method of supporting the roof and walls of an underground tunnel. |
| 106. | 136531 | 26-4-1973 | Ishikawajima-Harima Jukogyo Kabushiki Kaisha, of 2-1, 2-Chome, Ote-machi, Chyoda ku, Tokyo, Japan. | Furnace. |
| 107. | 136539 | 3-8-1972 | Binks Bullows Ltd.; Pelsall Road, Brownhills, Staffordshire W58, 7Nw, England. | Liquid spraying apparatus. |
| 108. | 136542 | 27-5-1972 | Elliott Brothers (London) Ltd.; Century Works, Lewisham, London S.E. 13, England. | Display unit mounting means. |
| 109. | 136546 | 5-9-1972 | Vandervell Products Ltd., Nordon Rd., Maidenhead, Berkshire, England. | Bearing for railway vehicle axles |
| 110. | 136549 | 17-1-1973 | Commissarriat AI' Energie Atomique, 29, rue de La Federation, Paris 15 e, France. | Device for sampling gas within rotating bowl of centrifuge. |
| 111. | 136550 | 17-2-1973 | Thyssen Niederrhein, 42 Oberhausen, Essaner Str, 66, Federal Republic of Germany. | Draw off apparatus for drawing off spongy iron. |
| 112. | 136551 | 17-2-1973 | Do. | Discharging apparatus for spongy iron. |
| 113. | 136562 | 15-1-1973 | The Lucas Electrical Co. Ltd.; of Well Street, Birmingham 19, England. | Cam assembly for an ignition distributor. |
| 114. | 136563 | 16-11-1972 | Kelvinator Inc; 1545, Cycle Park Avenue, SW Orand Rapids Michigan, USA. | Heat exchanger wall assembly and refrigerator. |
| 115. | 136564 | 11-10-1972 | Carrier Corpn; Syracuse, New York, USA. | Thermostate chatte protection for refrigeration compressor motor. |
| 116. | 136575 | 14-8-1972 | USS Engineers and Consultants Inc; 600 Grnat St., Pittsburgh, Pennsylvania, USA. | Straightening continuous casting. |
| 117. | 136587 | 20-2-1973 | Elitex, of Liberec Czechoslovakia. | Washing rotory stencil for printing web material. |
| 118. | 136588 | 31-1-1973 | S. Agarwal; C/o Anil Textiles, 47 Pandit Purushottam Roy Street, Calcutta-7, India. | Bobin holder for sewing machine. |
| 119. | 136593 | 13-11-1972 | Abal Morrall Ltd. Clive Works Redditch, Worcestorshire, England. | Holders for needles, pins and like articles. |
| 120. | 136598 | 19-7-1972 | Ares World Wide Corpn., Panama City, Panama, USA. | Fabric. |
| 121. | 136605 | 27-7-1972 | Industries Pirelli S.P.A., Centro Pirelli, Plaza Duca d' Aosta No. e, Milanzollo, Italy. | Pneumatic tyre for wheels. |
| 122. | 136612 | 24-7-1972 | D. N. Prowse & Co. Ltd., Kentya Studies, Belts Redhill, Survey, England. | Abrasive articles for polishing grinding or like. |

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| 123. | 136613 | 25-8-1972 | Council of Sciemific and Industrial Research, Rafi Marg, New Delhi-1, India. | Hollow concrete units. |
| 124. | 136616 | 7-2-1973 | Intercole Automoation Inc.; 12011 van Vicent Boulevard, Los Angels, California, USA. | Mixing apparatus. |
| 125. | 136623 | 27-5-1972 | USS Engineers and Consultants Inc.; 600 Grant Street, Pittsburgh, Pennsylvania, USA. | Sliding gate closure mechanism for controlling flow of molten metal. |
| 126. | 136632 | 29-3-1972 | Pavel A. Shevinon, Grashdansky Prospekt, 94, Kopusil, KV-103, USSR. | Chuck for miniatur cylindrical parts. |
| 127. | 136637 | 2-5-1972 | Tri-Ordinate Corporation, 343 Sayder Avenue, Berkeley Heights, New Jersey, U.S.A. | Grinding. |
| 128. | 136653 | 8-8-1972 | Diamond Power Specialty, U. S. Route 22 East, Lancaster, Ohio, USA. | Cleaning hot surface by utilising jet to dislodge deposits. |
| 129. | 136655 | 25-10-1972 | Sealed Power Corpn., 2001 Sanford Street, Muskegon, Michigan 49443, USA. | Piston for combustion engine. |
| 130. | 136662 | 27-7-1972 | KCP Ltd., 38 Mount Road, Madras-6, India. | Hammer Drill |
| 131. | 136684 | 5-1-1973 | Caterpillar Tractor Co., 100 N.E., Adams Street, Peoria, Illinois 61629, U.S.A. | Track type vehicle with modular final drive. |
| 132. | 136701 | 12-5-1972 | Thomas J. Dillon & Co., Inc; 1730 Akrom-Peninsula Rd., Akron, Ohio, USA. | Modular building for use on a prepared foundation site. |
| 133. | 136703 | 5-8-1972 | GKN Transmissions Ltd., formerly Known as GKN Birfield Transmissions Ltd., Chester Rd., Erdington, Birmingham, B 24 ORB, England. | Connection of resiliently deformable sealing members to generally cylindricle articles. |
| 134. | 136710 | 4-1-1973 | Caterpillar Tractor Co., 100 N.E. Adams St., Peoria, Illinois 61629, USA. | Hydraulically powered drive and steering system for track type vehicle. |
| 135. | 136711 | 21-4-1973 | Girling Ltd., Kings Rd., Tyseley, Birmingham 11, England. | Railway vehicle disc brakes. |
| 136. | 136726 | 9-10-1972 | Veb Polygraph; 59 Zweinaundarfer Strasse, 705 Laipzig, East Germany. | Continuous folding of flexible sheets. |
| 137. | 136729 | 26-7-1972 | Sealed Power Corpn., 2001 Sanford Street, Muskegon, Michigan 49443, USA. | Making a latch in a piston ring expander. |
| 138. | 136734 | 16-3-1973 | Schotted-Werft; Spay/Rhain, Federal Republic of Germany. | Stearable propeller of watercraft. |
| 139. | 136735 | 9-11-1972 | Ruti Machinery Works Ltd., 8630 Ruti, Zurich, Switzerland. | Clamping device on a shuttle. |
| 140. | 136755 | 27-1-1973 | The Lubrizol Corpn., P.O. Box 3057, Euclid Station, Cleveland, Ohio 44117, USA. | Means for holding empty drums. |
| 141. | 136770 | 12-1-1973 | Sulzer Brothers Ltd., Winterthur, Switzerland. | Thread grippers for textile machinery. |
| 142. | 136779 | 24-7-1972 | USS Engineers and Consultants Inc; 600 Grant Street, Pittsburgh, Pennsylvania, USA. | Control technique for steel making. |
| 143. | 136795 | 15-6-1972 | Girling Ltd., Kings Road, Tyseley, Birmingham 11, England. | Servo Boosters. |
| 144. | 136800 | 29-7-1972 | Do | Brake pressure control valve. |
| 145. | 136839 | 29-9-1972 | The Lucas Electrical Co. Ltd., Formerly Known as Joseph Lucas (Electrical) Ltd., Well Street, Birmingham, 19, England. | Friction welding apparatus. |
| 146. | 136844 | 15-9-1972 | International Nickel Ltd.; Thames House, Millbank, London, S.W. 1, England. | Nickel chromium steel casting. |
| 147. | 136856 | 24-8-1972 | USS Engineers and Consultants Inc, 600 Grant Sitreet, Pittsburgh, Pennyslvania, USA. | Mechanism for removal of a roll rock in a continuous casting installation. |
| 148. | 136873 | 13-10-1972 | C.A.V. Ltd., Well Street, Birmingham19, England. | Liquid fuel pumping apparatus. |
| 149. | 136880 | 19-12-1972 | Dana Corpn., 4500 Dor St., Toledo, Ohio, USA. | Self adjusting clutch. |
| 150. | 136893 | 5-4-1973 | Do. | Clutch. |
| 151. | 136895 | 4-12-1973 | The Textile and Allied Industries Research Organization, Kala Bhavan, Premises, Baroda-1, India. | Stop motion device for a spinning machine. |

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|---|---|---|---|---|
| 152. | 136908 | 3-1-1973 | Schubert & Salzer, Maschinenfrbarik AG; Friedrich Ebert strasse 84,8076 Ingolstadt, Germany. | Continously winding threads on a tube. |
| 153. | 137011 | 11-9-1972 | Intermenua (Proprietary) Ltd., 25th Floor, Trust Bank Centre, Corner Main and E 10th Streets, Johnnesburg, South Africa. | Shearing machines. |
| 154. | 137106 | 23-7-1973 | Caterpillar Tractor Co., 100 N.E. Adams Street, Peoria, Illinois 61629, USA. | Flexible seal. |
| 155. | 137166 | 2-11-1972 | A.C.F. Industries, 750 Third Avenue, New York N.Y. 10017, USA. | Means to rotate spherical plug valve. |
| 156. | 137214 | 5-1-1973 | The Lucas Electrical Co. Ltd., [Formerly known as Joseph Lucas (Electrical) Ltd.], Well Street, Birmingham 19, England. | Manufacturing yoke assemblies. |
| 157. | 137226 | 21-10-1972 | A.C.F. Industries Inc; 750 Third Avenue, New N.Y. 10017, USA. | Fluid flow control valve incorporating fluid pressur actuated sealing member. |

## PATENTS DEEMED TO BE ENDORSED WITH THE WORDS "LICENCES OF RIGHT"

The following patent is deemed to have been endorsed with the words "LICENCES OF RIGHT" under Section 87 of the Patents Act, 1970. The date shown in the cresent brackets is the date of the patent.

No. Title of the invention.

130447 (3-3-71) Method and apparatus for refining molten metal.

## RENEWAL FEES PAID

79318 79639 79727 79873 79885 79899 79912 79988 80043
80160 80664 80746 80912 81171 81251 81252 81817 82348
84380 85374 85375 85454 85455 85458 85533 85594 85623
85624 85683 85697 85710 85727 85751 86139 86300 86898
86986 88862 90819 90899 91048 91247 91329 91466 91820
92384 92385 92529 93053 95360 96791 96802 96858 96976
96978 96982 97011 97020 97140 97326 97585 98782 99061
102699 102700 102851 102896 102969 103077 103129 103132
103531 103588 103664 104236 104329 104582 104661 104791
107984 108069 108211 108253 108319 108327 108376 108491
108625 108641 108687 110280 111576 113302 113383 113402
113409 113449 113457 113458 113512 113539 113560 113619
113620 113664 113697 113761 113781 113805 113822 114162
114249 114250 114251 114284 115005 118067 118327 118619
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124071 124103 124316 124327 124335 124363 124456 124468
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128992 129302 129325 129458 129516 129529 129567 129569
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134147 134151 134152 134206 136128 136193 136717 136815
136853 137365 137411 137496 137591 137761 137767 137825
137910 138094 138146 138195 138202 138218 138244 138245
138278 138490 138514 138550.

## CESSATION OF PATENTS

128270 129455 129457 129460 129465 129490 129501 129517
129528 129540 129543 129570 129572 129591 129599 129606
129624 129690 129728 129760 129771 129773 129777 129779
129819 129873 129921 129922 129935 130014 130015 130037
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130322 130329 130377 130466 130484 130495 130509 130527
130528 130533 130543 130548 130555 130559 130578 130603
130623 130629 130636 130652 130656 130702 131794 132152

## REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in each entry is the date of registration of designs included in the entry.

Class 1. No. 144162. Simpa Industries, an Indian Partnership firm duly registered under the Indian Partnership Act, at 23, Shah Industrial Estate, Deonar, Bombay, State of Maharashtra, India. "A suit case lock". April 13, 1976.

Class 1. No. 144164. Simpa Industries, an Indian Partnership Firm duly registered under the Indian Partnership Act, at 23, Shah Industrial Estate, Deonar, Bombay, State of Maharashtra, India. "A catch (female part) of the latch of a suit case lock".

Class 1. No. 144174. Chander Permanand Thakur an Indian, C/o. Rajen Industrial Corporation, 95/205, Dedasaheb Phalke Road, Below Park Lane Hotel, Near Dadar Station, Bombay-400014, Maharashtra, India. "Blader of mixer". April 17, 1976.

Class 1. No. 144184. Chander Bhan Kewal Ram, 5759-B, Gandhi Market, Sadar Bazar, Delhi-110006. an Indian Partnership Concern. "A mirror". April 22, 1976.

Class 1. No. 144197. Sri Manindra Chandra Mukherji, 9/15, Moore Avenue, Calcutta-40, An Indian National "Ovens". April 29, 1976.

Class 1. No. 144212. Larsen & Toubro Limited, of L & T House, Bellard Estate, Bombay-40001, Maharashtra, India, An Indian Company. "A casing for a direct-on-line starter with isolator and rewirable fuse unit." May 1, 1976.

Class 1. No. 144219. Kasturi Lal, of Liberty Industries, 2872 Kucha Challan, Daryaganj, Delhi, India, of Indian Nationality. "A picture frame". May 3, 1976.

Class 3. No. 144126. Mahesh Chand, C-16, Radio Colony, Kingsway Camp, Delhi-9, Indian by nationality. "P.V.C. royal union". March 30, 1976.

Class 3. No. 144136. Bharat Bhusan Bhardwaj, of 316, Khajur Road, Karol Bagh, New Delhi-110005, India, An Indian National. "A device for making cigarettes". April 3, 1976.

Class 3. No. 144163. Simpa Industries, an Indian Partnership Firm duly registered under the Indian Partnership Act, at 23, Shah Industrial Estate, Deonar, Bombay, State of Maharashtra, India. "A suit case handle". April 13, 1976.

Class 3. No. 144171. Simpa Industries, an Indian Partnership Firm duly registered under the Indian Partnership Act, at 23, Shah Industrial Estate, Deonar, Bombay, State of Maharashtra, India "A suit case handle". April 17, 1976.

Class 3. No. 144179. Larsen & Toubro Limited, of L & T House, Bellard Estate, Bombay-400001, Maharashtra, India, an Indian Company. "A thermistor motor protection relay". April 19, 1976.

Class 3. No. 144217. Balco, 107, A to Z Industrial Estate, 1st Floor, Ferguson Road, Lower Parel, Bombay-400013, Maharashtra State, an Indian Proprictary Concern. "Night lamp". May 3, 1976.

Class 3. No. 144218. Kasturi Lal of Liberty Industries, 2872 Kucha Challan, Daryaganj, Delhi, India, of Indian Nationality. "A picture frame". May 3, 1976.

Clsas 4. No. 144198. Shri Manindra Chandra Mukherji, 9/15, Moore Avenue, Calcutta-40, an Indian National. "Ovens". April 29, 1976.

Class 4. No. 144227. Aggarwal Plastic Industries, 1612, Hardhyan Singh Road, Karol Bagh, New Delhi-110005, A partnership firm. "Rear auto mirror". May 5 1976.

Class 11. No. 144194. Mahavidya Harilal Damania, 30, Ratan Abad, 4th Floor, Tukaram Javaji Road, Heaten Road, Bombay-7 (400007), Maharashtra State, India, A subject of the Republic of India. "Brassiere". April 26, 1976.

## COPYRIGHT EXTENDED FOR A SECOND PERIOD OF FIVE YEARS

Design Nos. 139640 & 139641.....Class 3.

## REGISTRATION OF ASSIGNMENTS, LICENCES, ETC. (DESIGNS)

Assignments, licences or other transaction affecting the interests of the original proprietors have been registered in the following cases. The number of each case is followed by the names of the applicants for registration.

138062 .. M/s. U.P. Shoe Industries Private Ltd.

## CANCELLATION OF THE REGISTRATION OF DESIGNS

(SECTION 51-A)

An application made by Ramesh Vinaychand Doshi and others trading as Metals Manufacturing Co. for cancellation of the registration of Design No. 143508 in Class I stands in the name of Bombay Filters & Appliances Private Limited.

Name Index of applicants for Patents for the month of October, 1976 (Nos. 1810/Cal/76 to 1979/Cal/76, 339/Bom/76 to 382/Bom/76, 192/Mas/76 to 210/Mas/76 and 1/Del/76 to 20/76.

*Name* *Appln. No.*

A

Adhaoo, S.H.—352/Bom/76.

Adour Entreprise.—1890/Cal/76.

*Name* *Appln. No.*

A—Contd.

Aktieselskabet Laur, Knudsen, Nordisk Elektricitets Selskab.—1821/Cal/76.

Allegheny Ludhlum Industries, Inc.—1909/Cal/76.

Aluminium Pechiney.—1906/Cal/76.

American Cyanamid Co.—1878/Cal/76, 1914/Cal/76.

Amsted Industries Inc. 1940/Cal/76.

Ananthakrishna, A.—198/Mas/76.

Ashland Oil, Inc.—1854/Cal/76.

Association Des Ouvriers EN Instruments De Precision.—1859/Cal/76.

B

Basf Aktiengesellschaft.—1899/Cal/76.

Babcock & Wilcox Co., The—1823/Cal/76, 1962/Cal/76.

Bai, S.—201/Mas/76.

Bain, S. K.—1930/Cal/76.

Bakhru, A.—7/Del/76.

Balcke-Durr AG.—1879/Cal/76.

Barthakur, S.—1942/Cal/76.

Bata India Ltd.—1872/Cal/76.

Battelle Development Corpn.—1910/Cal/76.

Bayer Aktiengesellschaft.—1827/Cal/76, 1891/Cal/76, 1978/Cal/76.

Berg, C.—1960/Cal/76.

Bhagwat, R. V. R.—341/Bom/76, 342/Bom/76, 376/Bom/76.

Bharat Heavy Electricals Ltd.—1902/Cal/76, 1903/Cal/76, 1904/Cal/76, 1905/Cal/76, 5/Del/76.

Bharel, S. K.—1892/Cal/76.

Bhat, V. D.—359/Bom/76.

Boc Ltd.—1839/Cal/76.

Bombay Textile Research Association, The—379/Bom/76.

Burger, M. R.—1943/Cal/76.

C

C. Bryant & Son Ltd.—1932/Cal/76.

Cadbury-Fry (India) Private Ltd.—364/Bom/76.

Carrier Corpn.—1825/Cal/76, 1889/Cal/76, 1925/Cal/76.

Chakravorty, S.—1958/Cal/76.

Chanda, T. K.—1815/Cal/76.

Chandra Shekhar, Y. S.—200/Mas/76.

Chapman Chemical Co.—1888/Cal/76.

Chief Controller Research & Development, Ministry of

*Name* *Appln. No.*

C—Contd.

Defence, The—1848/Cal/76, 11/Del/76, 14/Del/76, 14/Del/76.

Chloride Batteries Australia Ltd.—1835/Cal/76.

Chloride Group Ltd.—1882/Cal/76, 1883/Cal/76.

Churi, G. M.—363/Bom/76.

Control Drug, Inc.—1974/Cal/76.

Coulter Information Systems, Inc.—1966/Cal/76.

Council of Scientific and Industrial Research.—1819/Cal/76, 2/Del/76, 3/Del/76.

Csepeli Femmu.—1923/Cal/76.

Cummins Engine Co., Inc.—1893/Cal/76.

D

Datye, K. R.—1975/Cal/76.

Deshpande, A. R.—343/Bom/76.

Deutsche Gold-Und Silber-Scheideanstalt Vormals Roessler.—1886/Cal/76.

Devasenadhipathy, D. R.—206/Mas/76.

Director, Jute Technological Research Laboratories, The—1968/Cal/76, 1969/Cal/76.

Dwivedi, C. K.—1929/Cal/76.

Dynamit Novel Aktiengesellschaft.—1894/Cal/76.

E

E. I. Du Pont De Nemours and Co.—1877/Cal/76.

Enso-Gutzeit Osakeyhtio.—1973/Cal/76.

Economidis, D. G.—1875/Cal/76.

Edenvale Engineering Works (Proprietary) Ltd.—1873/Cal/76.

Eganathan, B. K.—193/Mas/76.

Empresa Nacional Del Aluminio S. A.—1826/Cal/76.

Escher Wyss Ltd.—1831/Cal/76, 1832/Cal/76.

Ethicon Inc.—1845/Cal/76.

Ettridge, J. P.—1941/Cal/76.

Experimentalny Nauchno-Issledovatelsky Institut Metallorezhuschikh Stankov.—1817/Cal/76.

F

F. L. Smidth & Co. A/S.—1811/Cal/76, 1961/Cal/76.

Firestone tyre and Rubber Company of India Private Ltd.—344/Bom/76.

Fives-Cail Babcock.—1820/Cal/76.

Foseco Trading A. G.—1858/Cal/76.

Fried Krupp Gesellschaft mit beschrankter Haftung.—1949/Cal/76.

Friedrich Uhde GmbH.—1971/Cal/76.

G

Gadgil, N.—356/Bom/76.

Gajanan, K. Y.—358/Bom/76.

Ganesh, P. M. S.—203/Mas/76.

Gardner, J. W.—1895/Cal/76.

General Electric Co.—1822/Cal/76, 1947/Cal/76.

*Name* *Appln. No.*

G—Contd.

General Electric Company Ltd., The—1814/Cal/76.

Gestetner Ltd.—1952/Cal/76.

Goodyear Tire & Rubber Co., The—1936/Cal/76.

Gresham & Craven of India (Private) Ltd.—1915/Cal/76, 1916/Cal/76.

H

Hamza, H.—373/Bom/76.

Hindustan Lever Ltd.—346/Bom/76, 353/Bom/76, 354/Bom/76, 369/Bom/76.

Hoechst Pharmaceuticals Ltd.—360/Bom/76, 372/Bom/76.

I

Imperial Chemical Industries Ltd.—1917/Cal/76, 1918/Cal/76, 1924/Cal/76.

Inco Europe Ltd. (Formerly known as International Nickel Ltd.)—1876/Cal/76.

Indian Drugs & Pharmaceuticals Ltd.—1834/Cal/76.

Institute PO Metaloznanie I Technologia NA Metalite.—1976/Cal/76.

Institut Elektrosvarki Imeni E.O. Patona Akademii Nauk Ukrainskoi SSR—1810/Cal/76. 1837/Cal/76.

Institut Francais Du Petrole.—1911/Cal/76.

Instrumentation Ltd.—6/Del/76.

International Business Machines Corpn.—1852/Cal/76.

International Instruments Private Ltd.—192/Mas/76.

Ishikawajima-Harima Jukogyo Kabushiki Kaisha.—1884/Cal/76.

Ivanyatov, I. E.—1818/Cal/76.

Izon.—1912/Cal/76, 1913/Cal/76.

J

Johnson & Johnson.—1846/Cal/76, 1866/Cal/76.

Joy, T. K.—208/Mas/76.

K. G. Khosla Compressors Private Ltd.—1/Del/76.

Kamal, R. (Dr. Mrs.)—10/Del/76.

Kannappa, B. M.—193/Mas/76.

Kapur, J. C.—17/Del/76, 18/Del/76.

Kar, R. C.—1934/Cal/76.

Katz, M.—1871/Cal/76.

Kelkar, P. G.—350/Bom/76, 351/Bom/76.

Kelkar, S. P. (Mrs.)—350/Bom/76, 351/Bom/76.

Kelkar, V. P. (Miss)—350/Bom/76, 351/Bom/76.

Kemanord A. B.—1862/Cal/76.

Kirloskar Oil Engines Ltd.—349/Bom/76, 368/Bom/76.

Koehler Manufacturing Co.—1965/Cal/76.

Kolosov, I. A.—1818/Cal/76.

Kothare, A. S.—377/Bom/76.

Koukios, E. G.—1875/Cal/76.

*Name* — *Appln. No.*

K—Contd.

Kulkarni, R. S.—345/Bom/76.

Kulshrestha, R. Y.—367/Bom/76.

L

Linde Aktiengesellschaft.—1830/Cal/76.

Lubrizol Corpn. The—1840/Cal/76, 1841/Cal/76, 1950/Cal/76.

Lucas Industries Ltd.—1901/Cal/76, 1946/Cal/76, 1977/Cal/76.

M

Malkani, P.—362/Bom/76.

Manke, B. S.—371/Bom/76.

Maruti Technical Services Pvt., Ltd.—1847/Cal/76, 4/Del/76.

Maschinenfabrik Reinhausen Gebruder Scheubeck GmbH & Co., KG.—1824/Cal/76.

Maschinenfabrik Reiter A. G.—1849/Cal/76, 1850/Cal/76.

Mechelonic Welders Private Ltd.—378/Bom/76.

Menon, R. B.—205/Mas/76.

Messerschmitt-Bolkow-Blohm Gesellschaft mit beschrankter Haftung.—1937/Cal/76.

Metallgesellschaft, A. G.—1867/Cal/76, 1897/Cal/76.

Mitsui Toatsu Chemicals, Inc.—1880/Cal/76, 1881/Cal/76.

Mobil Tyco Solar Energy Corpn.—1907/Cal/76, 1908/Cal/76.

Mohammed, M. P.—210/Mas/76.

Mo, O.—1885/Cal/76.

Moolchand, B. K.—201/Mas/76.

Moosa, M. M.—209/Mas/76.

Muhammad, C. P.—207/Mas/76.

Mukherjee, P. K.—1979/Cal/76.

N

NTN Toyo Bearing Co. Ltd.—1959/Cal/76.

Nadhan, B.—195/Mas/76.

Nair, C. K. R.—204/Mas/76.

Nestle's Products Ltd.—1945/Cal/76.

Niyogi, S. K.—1920/Cal/76.

Nordmark-Werke Gesellschaft Mit Beschrankter Haftung Hamburg.—1921/Cal/76.

Nuchem Plastics Ltd.—1970/Cal/76.

O

Obermaier & CIE.—1833/Cal/76

Olin Corpn.—1895/Cal/76, 1953/Cal/76.

P

P. R. Mallory & Co. Inc.—370/Bom/76.

Pandit, P. S.—347/Bom/76.

Pastala, A. L.—365/Bom/76.

*Name* — *Appln. No.*

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Patil, S. K.—381/Bom/76.

Paul Devarul, P. M.—196/Mas/76.

Pevnev, V. N.—1818/Cal/76.

Pfizer Corporation.—1957/Cal/76.

Phatak, D. R.—1887/Cal/76.

Phatak, R. D.—1887/Cal/76.

Pilkington Brothers Ltd.—1926/Cal/76.

Pillai, S. G.—339/Bom/76.

Poclain Hydraulics.—1874/Cal/76.

Produits Chimiques Du Bearn.—1838/Cal/76.

R

R. A. Lister & Company Ltd.—1927/Cal/76, 1928/Cal/76.

Rai, R. K.—1868/Cal/76.

Rao, V. M.—194/Mas/76.

Rathi, M. L.—366/Bom/76.

Rca Corpn.—1828/Cal/76.

Registrar, M. P.—380/Bom/76.

Robert Bosch GmbH.—1861/Cal/76.

Roto Diesel.—1939/Cal/76.

S

Sagami Chemical Research Centre.—1919/Cal/76.

Sahney Kirkwood Pvt., Ltd.—361/Bom/76.

Sargunam, J.—199/Mas/76.

Saroja, P. (Mrs.)—193/Mas/76.

Schuman, M.—1933/Cal/76.

Seth, R.—375/Bom/76.

Shahryar, A.—12/Del/76.

Shah, S. M.—348/Bom/76.

Sharma, R. (Dr. Miss)—10/Del/76.

Shell Internationale Research Maatschappij B. V.—1853/Cal/76, 1938/Cal/76.

Shri A. M. M. Muruappa Chettiar Research Centre.—202/Mas/76.

Siemens Aktiengesellschaft.—1856/Cal/76.

Siemens-Albis Aktiengesellschaft.—1836/Cal/76.

Singh, G.—8/Del/76, 9/Del/76.

Snamprogetti S.p.A.—1865/Cal/76.

Societe de Diffusion et de Recherches Techniques et Financieres S.A.—1967/Cal/76.

Societe De Prayon.—1842/Cal/76.

Societe D'Etudes De Machines Thermiques—S.E.M.T.—1896/Cal/76, 1935/Cal/76.

Solo Industries Pty. Ltd.—1857/Cal/76.

Somasekaran, B. K.—193/Mas/76.

Speedex Plastchrom & Mfg. Co.—340/Bom/76.

| *Name* | *Appln. No.* |
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S—*Contd.*

Sperry Rand Corpn.—1931/Cal/76, 1954/Cal/76, 1955/Cal/76, 1956/Cal/76.

Stanadyne, Inc.—1843/Cal/76, 1864/Cal/76.

Star Textile Engineering Works Ltd.—357/Bom/76.

Stauffer Chemical Co.—1812/Cal/76, 1813/Cal/76, 1851/Cal/76, 1944/Cal/76.

Subramanyan, L. R.—374/Bom/76.

Sundaram Clayton Ltd.—197/Mas/76.

Svenska Rotor Maskiner Aktiebolag.—1816/Cal/76.

T

Tata Engineering & Locomotive Company Ltd.—382/Bom/76.

Technion Research and Development Foundation Ltd.—1860/Cal/76.

Texaco Development Corpn.—1948/Cal/76.

Thomson, Brandt.—1869/Cal/76.

Tractel Tirfor India Private Ltd.—1900/Cal/76.

U

UOP, Inc.—1964/Cal/76.

USS Engineers and Consultants, Inc.—1963/Cal/76.

Union Carbide Corpn. 1951/Cal/76, 1972/Cal/76.

| *Name* | *Appln. No.* |
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V

Valkanas, G. N.—1875/Cal/76.

Vereingite Osterreichische Eisten-Und Stahlwerke-Alpine Montan Aktiengesellschaft.—1844/Cal/76, 1855/Cal/76.

Vishwesvaran, D. R.—206/Mas/76.

Visvesvaraya, H. C. S. (Dr.)—15/Del/76, 16/Del/76, 19/Del/76, 20/Del/76.

Vsesojuzny Nauchno-Issledovatelsky Institut Tekhnicheskogo Ugleroda.—1870/Cal/76.

W

Western Electric Company Inc.—1863/Cal/76.

Westinghouse Electric Corpn.—1829/Cal/76, 1922/Cal/76.

Y

Yashwant, K. M. (Mrs.)—358/Bom/76.

Z

Zangda, C. K.—355/Bom/76.

S. VEDARAMAN

*Controler General of Patents Designs and Trade Marks*

PRINTED BY THE MANAGER, GOVERNMENT OF INDIA PRESS, FARIDABAD
AND PUBLISHED BY THE CONTROLLER OF PUBLICATIONS, DELHI, 1976